

**Appendix K**  
**2009-2010 Activity Report Forms for Demand**  
**Management Measures**

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## 2009 Activity Report Forms for Demand Management Measures

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City of Santa Maria

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## Annual Reports

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Agency Info

My Account

Base Year Data

## Reporting Year

&lt; 2009 &gt;

## Water Sources and Usage

## Sources

## Uses

## BMP 1

Operations Practices  
Water Loss Control  
Metering with Commodity  
Retail Conservation Pricing

## BMP 2

Public Outreach  
Public Outreach Cont'd  
School Education

## BMP 3 - Residential

Traditional  
Flex Track

## BMP 4 - CII

Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## Water Sources

Service Area Population: 92,242

Save

## Potable

## Own Sources

New

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
Wells	6,610	Groundwater	Edit Delete
Total: 6,610.00			

## Imported Water

New

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
State Water	7,637.00	Surface	Edit Delete
Total: 7,637.00			

## Exported Water

New

Supply Source Name	Quantity Exported (AF/Year)	Where Exported	Actions
No data to display			
Total: 0.00			

Net Potable Into the System: AF/Year

## Non Potable

## Own Sources

New

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
Well	2.00	Groundwater	Edit Delete
Total: 2.00			

## Imported Water

New

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
No data to display			
Total : 0.00			

## Exported Water

New

Supply Source Name	Quantity Exported (AF/Year)	Where Exported	Actions
No data to display			
Total : 0.00			

Net NonPotable Into the System: AF/Year

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## Reporting Year

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## Water Sources and Usage

Sources

Uses

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Traditional  
Flex Track

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Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## Water Uses

## Potable

## Billed

New

Property Type	Metered # Accounts	Metered Water Delivered (AF/Year)	Un-Metered # Account	Un-Metered Water Delivered In AF	Actions	
Single-Family	18,621	6,949.00	0	0.00	Edit	Delete
Multi-Family	784	2,283.00	0	0.00	Edit	Delete
Commercial	1,340	1,936.00	0	0.00	Edit	Delete
Industrial	98	334.00	0	0.00	Edit	Delete
Institutional	557	805.00	0	0.00	Edit	Delete
Dedicated Irrigation	181	1,036.00	0	0.00	Edit	Delete
System Flushing	6	10.00	0	0.00	Edit	Delete
Fire Lines	1	7.00	0	0.00	Edit	Delete
Other	3	145.00	0	0.00	Edit	Delete
		Total : 13,505.00			Total : 0.00	

## Un-Billed

New

Property Type	Metered # Account	Metered Water Deliveries (AF/Year)	Un-Metered # Account	Un-Metered Water Deliveries AF/Year	Actions	
Single-Family					Edit	Delete
Multi-Family					Edit	Delete
Commercial					Edit	Delete
Industrial					Edit	Delete
Institutional					Edit	Delete
Dedicated Irrigation					Edit	Delete
System Flushing					Edit	Delete
Fire Lines					Edit	Delete
Other					Edit	Delete
		Total : 0.00			Total : 0.00	

Net Potable Into the System: 13,505.00 AF/Year

## Non Potable

## Billed

New

Property Type	Metered # Accounts	Metered Water Delivered (AF/Year)	Un-Metered # Accounts	Un-Metered Water Delivered (AF/Year)	Actions
---------------	-----------------------	--------------------------------------	--------------------------	---	---------

Agricultural	1	2.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>
Total : 2.00			Total : 0.00			
<b>Un-Billed</b>						<a href="#">New</a>
Property Type	Metered # Accounts	Metered Water Deliveries (AF/Year)	Un-Metered # Accounts	Un-Metered Water Deliveries (AF/Year)	Actions	
Agricultural					<a href="#">Edit</a>	<a href="#">Delete</a>
Total : 0.00			Total : 0.00			
Net NonPotable Into the System: 2.00 AF/Year						

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## Water Sources and Usage

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## BMP 1

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## BMP 3 - Residential

[Traditional](#)  
[Flex Track](#)

## BMP 4 - CII

[Traditional](#)  
[Flex Track](#)

## BMP 5 - Landscape

[Traditional](#)  
[Flex Track](#)

## GPCD

[GPCD](#)

## BMP 1.1 Operations Practices

[View MOU](#)[Save](#)

## Conservation Coordinator

Conservation Coordinator ☒ Yes ☐ No

## Contact Information

First Name	Myra	Street Address 1	2065 E. Main Street
Last Name	Ritchie	Street Address 2	
Title	Water Conservation Specialist	City	Santa Maria
Phone	805-925-0951 Ext. 7235	State	CA
Mobile Phone	805-310-6483	Postal Code	93454
Email	mritchie@ci.santa-maria.ca.us		

## Water Waste Prevention

**An agency MUST do at least one of the following five strategies; although water agencies are encouraged to do them all when possible.**☒ **Option A** (Describe, upload or provide an electronic link to, the ordinance or terms of service adopted by your agency to meet the water waste prevention requirements of this BMP.)

Upload File

 [Browse...](#)[Upload](#) [Clear](#)Uploaded filename: [Water Waste Prohibition - City Ordinance.pdf](#)URL 

Describe Ordinance or Terms

The city ordinances 8-10-32 and 8-10-33 states that all customers are required to maintain in good repair all of their pipes, faucets, valves, plumbing fixtures or any other water-use appliances, at all times to prevent the waste of water. The City has the right to shut off the water by the water division and will not be turned on again

☒ **Option B** (Describe, upload, or provide an electronic link to, any water waste prevention ordinances or requirements adopted by your local jurisdiction(s) or regulatory agencies within your service area.)

Upload File

 [Browse...](#)[Upload](#) [Clear](#)Uploaded filename: [Copy of Water Waste Prohibition - City Ordinance.pdf](#)URL 

Describe Ordinances or Requirements

Section 8-10.33 states that the water may be shut off and sealed by the Utilities Department until a turn on fee is paid if the customer is found to willfully and negligently wastes water through the misuse of sprinkler. 9-4.08 states that all commercial car wash facilities, including self wash, shall have a water recycling system and the

☒ **Option C** (Describe, upload or provide an electronic link to, any documentation of Support provided for legislation or regulations that prohibit water waste.)



## Upload File

Upload File

Upload Clear Browse...

Uploaded filename: [Water Waste Prohibition - City Ordinance.pdf](#)

## URL

Describe the support provided for legislation or regulations that prohibit water waste.

☐ **Option D** (Describe your agency's efforts to cooperate with other entities in the adoption or enforcement of local requirements consistent with this BMP.)

Describe Efforts

☐ **Option E** (Describe your agency's support positions with respect to adoption of legislation or regulations that are consistent with this BMP. )

Describe Legislation

## Enforcement Reporting

Select from the list your agency's water waste prevention program and rank the importance of each program (where 1 = most important)

New

Water Waste Prevention Type	Importance Ranking	Description	Actions
Aggressive enforcement including fines/ charges for violators of water waste prohibitions	1		Edit Delete

## Select the BMP for which support is provided

This section needs to be completed by the wholesale water agencies

## Financial Investments &amp; Building Partnerships

Enter the types of BMP Number Provided. Click the New button to add a new line, then click Update when finished.

New

BMP Name	Expense	Equivalent Resources Provided	Actions
			Update Cancel

## Technical Support

Enter the types of Technical Support Provided. Click the New button to add a new line, then click Update when finished.

New

Technical Support Type	Technical Support Expenses	Description	Actions

No data to display

**Program Management**

Enter the types of BMP Name Provided. Click the New button to add a new line, then click Update when finished.

New			
BMP Name	Program Description	Organization Name	Actions
BMP 1 Foundational: Operations		California Urban Water Agencies	<a href="#">Edit</a> <a href="#">Delete</a>

**Water Shortage Allocation**Agency Has A Water Shortage Allocation Plan or Policy ☒ Yes ☐ No

Upload File

[Browse...](#)

[Upload](#) [Clear](#)

Uploaded filename: [DraftSection\\_WaterShortageContingencyPlanning.docx](#)

Date of Adoption **Encourage CUWCC Membership**

List Efforts to Recruit Retail Agencies

Amount of Dues Paid on Behalf of Retail Agencies \$3331.88*2009 Membership Dues*

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The city ordinances 8-10-32 and 8-10-33 states that all customers are required to maintain in good repair all of their pipes, faucets, valves, plumbing fixtures or any other water-use appliances, at all times to prevent the waste of water. The City has the right to shut off the water by the water division and will not be turned on again until repairs are made to the satisfaction of the water division. The water can be shut off and locked by the water division if the customer willfully and negligently wastes water through the sprinklers or any other facility. In both cases the water will not be turned back on until a turn-on fee is paid.

Section 8-10.33 states that the water may be shut off and sealed by the Utilities Department until a turn on fee is paid if the customer is found to willfully and negligently wastes water through the misuse of sprinkler. 9-4.08 states that all commercial car wash facilities, including self wash, shall have a water recycling system and the design installations of these systems shall be approved by the administrative authority.

## Annual Reports

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Reporting Year

<| 2009 |>

Water Sources and Usage

Sources

Uses

BMP 1

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Water Loss Control

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Flex Track

BMP 5 - Landscape

Traditional

Flex Track

GPCD

GPCD

## BMP 1.2 Water Loss Control

[View MOU](#)

Save

## AWWA Water Audit

Agency to complete a Water Audit & Balance Using The AWWA Software ☒ Yes ☐ No  
Upload Worksheets (AWWA Water Audit)

Agency Test Source , Import & Production Meters this Reporting Year ☒ Yes ☐ No

Water Audit Validity Score

72%

Agency Completed Training In The AWWA Water Audit Method

☒ Yes ☐ No

### Agency Completed Training In The Component Analysis Process

☒ Yes ☐ No

Completed/Updated the Component Analysis (at least every 4 years)?

☐ Yes ☒ No

Component Analysis Completed/Updated Date

4/8/11

### Water Loss Performance

Agency Demonstrated Progress in Water Loss Control Performance ☒ Yes ☐ No

☒ Yes ☐ No

Agency Repaired All Reported Leaks & Breaks To The Extent Cost Effective ☒ Yes ☐ No

☒ Yes ☐ No

**Agency Established & Maintained a Record Keeping System For The Repair of Reported Leaks for The Following**

Date/Time Leak Reported <input checked="" type="radio"/> Yes <input type="radio"/> No	Leak Location <input checked="" type="radio"/> Yes <input type="radio"/> No
Type of Leaking Pipe Segment or Fitting <input checked="" type="radio"/> Yes <input type="radio"/> No	Leak Running Time From Report to Repair <input checked="" type="radio"/> Yes <input type="radio"/> No
Leak Volume Estimate : <input checked="" type="radio"/> Yes <input type="radio"/> No	Cost of Repair: <input checked="" type="radio"/> Yes <input type="radio"/> No

Agency Located and Repaired Unreported Leaks to the Extent Cost Effective ☒ Yes ☐ No

☒ Yes ☐ No

Type of Program Activities Used to Detect Unreported Leaks

[illegible]

## Annual Summary Information


Complete the following table with annual summary information (required for reporting years 2-5 only)

**New**

Total Leaks Repaired	Economic Value Of RealLoss	Economic Value Of AppLoss	Miles Of System Surveyed For Leaks	Pressure Reduction Undertaken for loss reduction	Cost Of Interventions	Water Saved (AF/Year)	Actions	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Update	Cancel

### AWWA Model

Please download the current **AWWA Water Audit Excel** file [here](#)

Information may  
be obtained  
from the  AWWA Water  
Audit Spreadsheet



# AWWA Water Loss Control Committee (WLCC) Free Water Audit Software v4.1

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WAS v4.1

**PURPOSE:** This spreadsheet-based water audit tool is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. It provides a "top-down" summary water audit format, and is not meant to take the place of a full-scale, comprehensive water audit format.

**USE:** The spreadsheet contains several separate worksheets. Sheets can be accessed using the tabs towards the bottom of the screen, or by clicking the buttons on the left below. Descriptions of each sheet are also given below.

## THE FOLLOWING KEY APPLIES THROUGHOUT:

- Value can be entered by user
- Value calculated based on input data
- These cells contain recommended default values

Please begin by providing the following information, then proceed through each sheet in the workbook:

NAME OF CITY OR UTILITY:  COUNTRY:

REPORTING YEAR:  START DATE (MM/YYYY):  END DATE (MM/YYYY):

NAME OF CONTACT PERSON:  E-MAIL:  TELEPHONE:  Ext.

PLEASE SELECT PREFERRED REPORTING UNITS FOR WATER VOLUME:

Click to advance to sheet... Click here:  for help about units and conversions

<b>Instructions</b>	The current sheet
<b>Reporting Worksheet</b>	Enter the required data on this worksheet to calculate the water balance
<b>Water Balance</b>	The values entered in the Reporting Worksheet are used to populate the water balance
<b>Grading Matrix</b>	Depending on the confidence of audit inputs, a grading is assigned to the audit score
<b>Service Connections</b>	Diagrams depicting possible customer service connection configurations
<b>Definitions</b>	Use this sheet to understand terms used in the audit process
<b>Loss Control Planning</b>	Use this sheet to interpret the results of the audit validity score and performance indicators

## Comments:

Add comments here to track additional supporting information, sources or names of participants

If you have questions or comments regarding the software please contact us at: [wlc@awwa.org](mailto:wlc@awwa.org)



# AWWA WLCC Free Water Audit Software: Reporting Worksheet

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WAS v4.1

[Back to Instructions](#)

[Click to access definition](#)

Water Audit Report for: **City of Santa Maria**

Reporting Year: **2009** **1/2009 - 12/2009**

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: **ACRE-FEET PER YEAR**

## WATER SUPPLIED

<< Enter grading in column 'E'

Volume from own sources:	<input type="text" value="5"/>	<input type="text" value="6,610.000"/>	acre-ft/yr
Master meter error adjustment (enter positive value):	<input type="text" value="5"/>	<input type="text" value="2.000"/>	over-registered acre-ft/yr
Water imported:	<input type="text" value="9"/>	<input type="text" value="7,637.000"/>	acre-ft/yr
Water exported:	<input type="text" value="7"/>	<input type="text" value="85.000"/>	acre-ft/yr
<b>WATER SUPPLIED:</b>		<b>14,160.000</b>	acre-ft/yr

## AUTHORIZED CONSUMPTION

Billed metered:	<input type="text" value="9"/>	<input type="text" value="13,420.000"/>	acre-ft/yr
Billed unmetered:	<input type="text" value="10"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="text" value="10"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled unmetered:	<input type="text" value="9"/>	<input type="text" value="177.000"/>	acre-ft/yr
Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed			
<b>AUTHORIZED CONSUMPTION:</b>		<b>13,597.000</b>	acre-ft/yr

Click here: [for help using option buttons below](#)

Pcnt:  Value:

Use buttons to select percentage of water supplied OR value

## WATER LOSSES (Water Supplied - Authorized Consumption)

acre-ft/yr

## Apparent Losses

Unauthorized consumption:	<input type="text" value="7"/>	<input type="text" value="35.400"/>	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed			
Customer metering inaccuracies:	<input type="text" value="7"/>	<input type="text" value="0.000"/>	acre-ft/yr
Systematic data handling errors:	<input type="text" value="6"/>	<input type="text" value="249.000"/>	acre-ft/yr
<b>Apparent Losses:</b>		<b>284.400</b>	

Pcnt:  Value:

Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

## Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:	<input type="text" value="7"/>	<input type="text" value="278.600"/>	acre-ft/yr
<b>WATER LOSSES:</b>		<b>563.000</b>	acre-ft/yr

## NON-REVENUE WATER

NON-REVENUE WATER:   acre-ft/yr

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

## SYSTEM DATA

Length of mains:	<input type="text" value="9"/>	<input type="text" value="350.0"/>	miles
Number of active AND inactive service connections:	<input type="text" value="6"/>	<input type="text" value="21,300"/>	
Connection density:	<input type="text" value="5"/>	<input type="text" value="61"/>	conn./mile main
Average length of customer service line:	<input type="text" value="5"/>	<input type="text" value="15.0"/>	ft (pipe length between curbside and customer meter or property boundary)
Average operating pressure:	<input type="text" value="9"/>	<input type="text" value="70.0"/>	psi

## COST DATA

Total annual cost of operating water system:	<input type="text" value="9"/>	<input type="text" value="\$5,807,365"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="text" value="6"/>	<input type="text" value="\$3.85"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="text" value="7"/>	<input type="text" value="\$216.00"/>	\$/acre-ft/yr

## PERFORMANCE INDICATORS

### Financial Indicators

Non-revenue water as percent by volume of Water Supplied:	<input type="text" value="5.2%"/>
Non-revenue water as percent by cost of operating system:	<input type="text" value="9.9%"/>
Annual cost of Apparent Losses:	<input type="text" value="\$476,956"/>
Annual cost of Real Losses:	<input type="text" value="\$60,178"/>

### Operational Efficiency Indicators

Apparent Losses per service connection per day:	<input type="text" value="11.92"/>	gallons/connection/day
Real Losses per service connection per day:	<input type="text" value="11.68"/>	gallons/connection/day
Real Losses per length of main per day:	<input type="text" value="N/A"/>	
Real Losses per service connection per day per psi pressure:	<input type="text" value="0.17"/>	gallons/connection/day/psi
Unavoidable Annual Real Losses (UARL):	<input type="text" value="141.61"/>	million gallons/year
From Above, Real Losses = Current Annual Real Losses (CARL):	<input type="text" value="278.60"/>	million gallons/year
Infrastructure Leakage Index (ILI) [CARL/UARL]:	<input type="text" value="0.64"/>	

\* only the most applicable of these two indicators will be calculated

## WATER AUDIT DATA VALIDITY SCORE:

**\*\*\* YOUR SCORE IS: 72 out of 100 \*\*\***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

## PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

- 1: Volume from own sources
- 2: Master meter error adjustment
- 3: Water exported

[For more information, click here to see the Grading Matrix worksheet](#)



AWWA WLCC Free Water Audit Software: <u>Water Balance</u>					Water Audit Report For:		Report Yr:
Copyright © 2010, American Water Works Association. All Rights Reserved.					City of Santa Maria		2009
Own Sources  (Adjusted for known errors)  6,608.000	Water Exported  85.000	Billed Water Exported					
	Water Supplied  14,160.000	Authorized Consumption  13,597.000	Billed Authorized Consumption  13,420.000	Billed Metered Consumption (inc. water exported)  13,420.000	Revenue Water		
			Unbilled Authorized Consumption  177.000	Billed Unmetered Consumption  0.000	13,420.000		
				Unbilled Metered Consumption  0.000	Non-Revenue Water (NRW)		
			Water Losses  563.000	Apparent Losses  284.400	Unbilled Unmetered Consumption  177.000	740.000	
		Unauthorized Consumption  35.400					
		Customer Metering Inaccuracies  0.000					
		Systematic Data Handling Errors  249.000					
		Water Imported  7,637.000		Real Losses  278.600	Leakage on Transmission and/or Distribution Mains  Not broken down		
					Leakage and Overflows at Utility's Storage Tanks  Not broken down		
					Leakage on Service Connections  Not broken down		

City of Santa Maria

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## Reporting Year

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## Water Sources and Usage

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## GPCD

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## BMP 1.3 Metering with Commodity Rates

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## Implementation

Does your agency have any unmetered service connections?

☐ Yes ☒ No

If YES, has your agency completed a meter retrofit plan?

☐ Yes ☒ No

If YES, number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered?

☒ Yes ☐ No

Are all new service connections being billed volumetrically?

☒ Yes ☐ No

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters?

☒ Yes ☐ No

## Please Fill Out The Following Matrix

Account Type	# Metered Accounts	# Metered Accounts Read	# Metered Accounts Billed by Volume	Billing Frequency Per Year	# of estimated bills/yr
Single Family	18,621	18,621	18,621	Monthly	12
Multi-Family	784	784	784	Monthly	12
Commercial	948	948	948	Monthly	12
Industrial	98	98	98	Monthly	12
Institutional	948	948	948	Monthly	12
Landscape Irrigation	181	181	181	Monthly	12

## Feasibility Study

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

☐ Yes ☒ No

## If YES, please fill in the following information:

A. When was the Feasibility Study conducted

B. Describe, upload or provide an electronic link to the Feasibility Study Upload File

N/A

Upload

Clear

[Browse...](#)

URL

Describe

Number of CII Accounts with Mixed-used Meters

Number of CII Accounts with Mixed-used Meters Retrofitted with Dedicated Irrigation Meters during Reporting Period

## At Least As Effective As

Is your agency implementing an "at least as effective as" variant of this BMP?

☒ Yes ☐ No

If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be

"at least as effective as."

**Comments**

Comments On Metering with Commodity Rates

All of the city's connections are being metered. There are no unmetered connections retrofitted during the reporting year.

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## BMP 5 - Landscape

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## GPCD

[GPCD](#)

## BMP 1.4 Retail Conservation Pricing

[View MOU](#)

Save

## Implementation (Water Rate Structure)

Enter the Water Rate Structures that are assigned to the majority of your customers, by customer class

New

Rate Structure Option	Customer Class Name	Total Revenue Commodity Charges	Total Revenue Customer Meter/Service (Fixed) Charges	Actions
				Edit Delete
Increasing Block	Single Family	13,688,713.28		Edit Delete
Increasing Block	Multi Family	3,380,613.65		Edit Delete
Increasing Block	Commercial	4547,365.53		Edit Delete
Increasing Block	Industrial	601,554.60		Edit Delete
Increasing Block	Institutional			Edit Delete
Increasing Block	Dedicated Irrigation	1,902,289.72		Edit Delete
Service Not Provided	Recycled/Reclaimed			Edit Delete
Service Not Provided	Raw			Edit Delete
Service Not Provided	Other			Edit Delete
		\$0	\$0	

## Implementation Option (Conservation Pricing Option)

Please Select an Option

☒ Use Annual Revenue As Reported☐ Use Canadian Water & Wastewater Association Rate Design Model

## Annual Revenue as Reported

Total annual revenue from volumetric rates V = 0

Total annual revenue from customer meter/service (fixed) charges M = 0

## Retail Waste Water (Sewer) Rate Structure by Customer Class

No

Agency Provide Sewer Service

☒ Yes ☐ No

Select the Retail Waste Water(Sewer) Rate Structure assigned to the majority of your customers within a specific customer class.

New

Rate Structure Option	Customer Class Name	Total Revenue Commodity Charges	Total Revenue Customer Meter/Service (Fixed) Charges	Actions
Non-Volumetric Flat Rate	Single Family	2,661,674.55		Edit Delete
Non-Volumetric Flat Rate	Multi Family	783,822.23		Edit Delete
Non-Volumetric	Commercial	1,183,201.78		Edit Delete

Hotel  
146,193.47Mobile  
487,003.90Motel  
296,937.08

Hotel

52,527.90

Mobile

145,991.35

Motel

123,403.85

Flat Rate	0	Edit	Delete
Non-Volumetric Flat Rate	0	Edit	Delete
Uniform	0	Edit	Delete
Service Not Provided	0	Edit	Delete

institutional  
Industrial - 181,677.35  
Recycled/  
Reclaimed

\$0 \$0

**At Least As Effective As****If Agency Implemented an AT LEAST AS EFFECTIVE AS variant then Please Give Explanation**Agency is Implementing an AT LEAST AS EFFECTIVE AS variant of this BMP ☐ Yes ☒ No

Explanation of AT LEAST AS EFFECTIVE AS

**Exemption Request****If Agency has Requested an Exemption then please Select a Exemption Type**Agency has Requested an Exemption from Implementing this BMP ☐ Yes ☒ NoExemption Type 

Comments on Conservation Pricing BMP

Seven of our industrial sewer users are billed on volumetric use effected by monthly BODs and TSS readings taken from monthly samplings. The strength of their BOD and TSS readings effectshow much their monthly sewer bill is.

**Download Canadian Rate Manual, and Instructions**
[Instructions](#)  
[Canadian Rate Manual](#)

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# Revenue by Category code and Account type

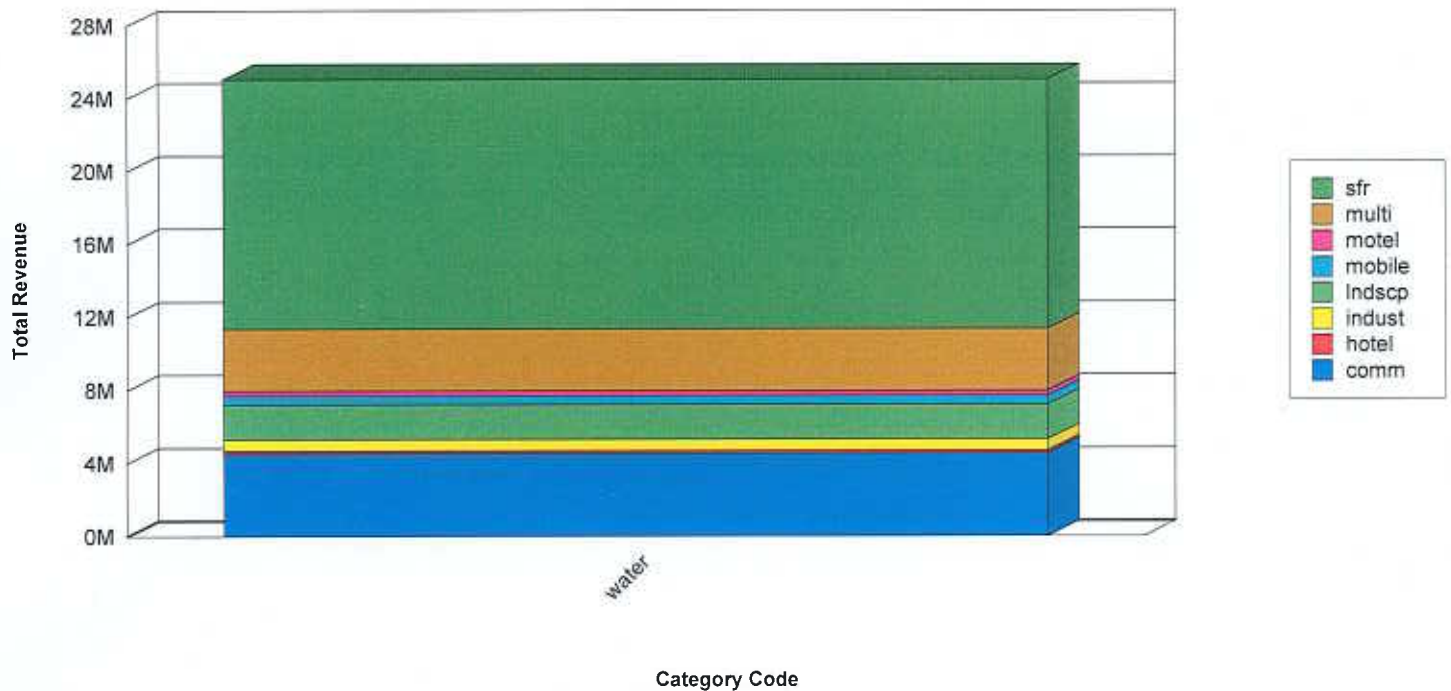
4/8/2011 10:12:35AM

City of Santa Maria

07/01/2009 through 06/30/2010

## Account Type

Category Code	Account Type			
	comm	hotel	indust	Indscp
water	4,547,365.53	146,193.47	601,554.60	1,902,289.72
Total	4,547,365.53	146,193.47	601,554.60	1,902,289.72





mobile	motel	multi	sfr	Total
487,003.90	296,937.08	3,380,613.65	13,688,713.28	25,050,671.23
487,003.90	296,937.08	3,380,613.65	13,688,713.28	25,050,671.23

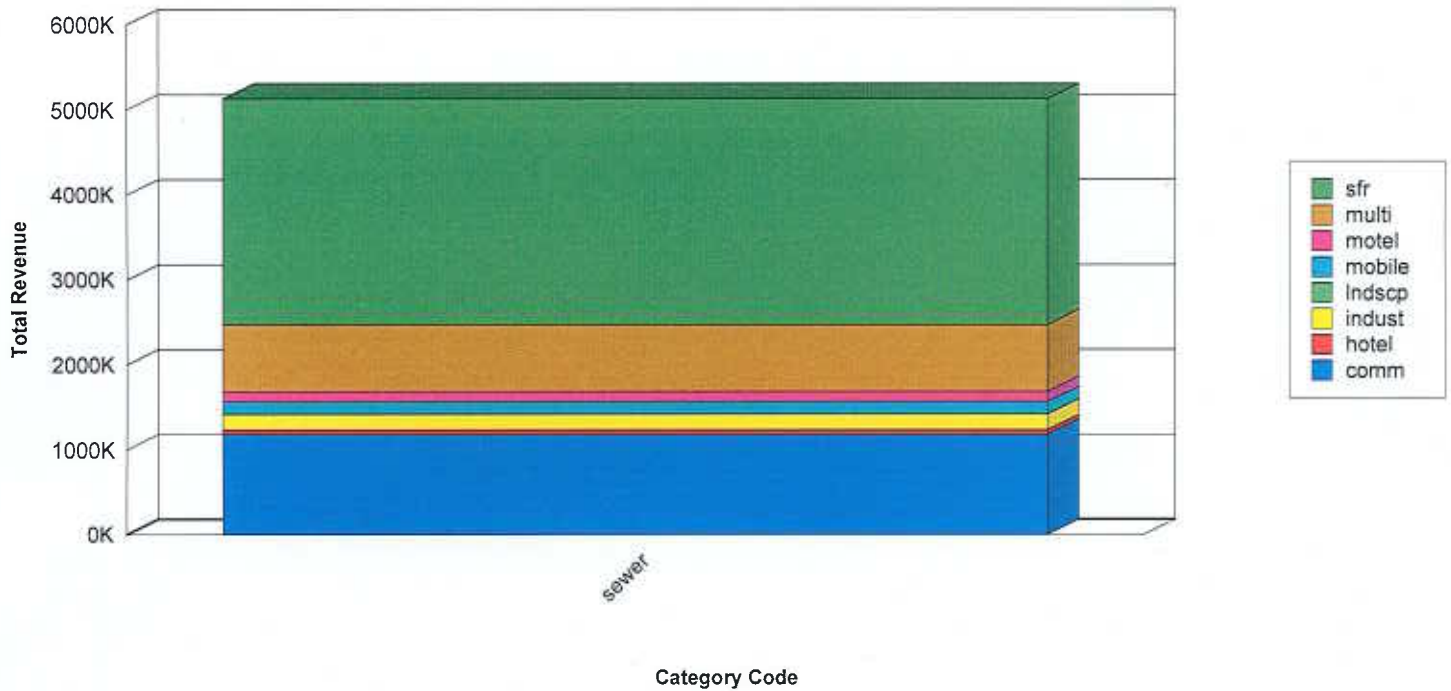
# Revenue by Category code and Account type

City of Santa Maria

07/01/2009 through 06/30/2010

## Account Type

Category Code	Account Type			
	comm	hotel	indust	Indscp
sewer	1,183,201.78	52,527.90	181,677.35	1,537.07
Total	1,183,201.78	52,527.90	181,677.35	1,537.07



mobile	motel	multi	sfr	Total
145,991.35	123,403.85	783,822.23	2,661,674.55	5,133,836.08
145,991.35	123,403.85	783,822.23	2,661,674.55	5,133,836.08

City of Santa Maria

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## BMP 5 - Landscape

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## GPCD

[GPCD](#)

## BMP 2.1 Public Outreach

[View MOU](#)

Save

16 6 0

## Is a Wholesale Agency Performing Public Outreach?

Are there one or more wholesale agencies performing public outreach which can be counted to help your agency comply with the BMP?

☐ Yes ☒ No

## Is the Retail Agency Performing Public Outreach?

Report a minimum of 4 water conservation related contacts your agency had with the public during the year.

## Public Information Programs List

New

Number of Public Contacts	Did at least one contact take place during each quarter of the reporting year?	Public Information Programs	Actions
16		General water conservation information	<a href="#">Edit</a> <a href="#">Delete</a>
16			

## Contact with the Media

Are there one or more wholesale agencies performing media outreach which can be counted to help your agency comply with the BMP?

☐ Yes ☒ No

## OR Retail Agency (Contacts with the Media)

## Media Contacts List

New

Number of Media Contacts	Did at least one contact take place during each quarter of the reporting year?	Media Contact Types	Actions
6		News releases	<a href="#">Edit</a> <a href="#">Delete</a>
6			

## Is a Wholesale Agency Performing Website Updates?

Did one or more CUWCC wholesale agencies agree to assume your agency's responsibility for meeting the requirements of and for CUWCC reporting of this BMP?

☒ Yes ☐ No

Select the wholesale agency name(s)

Enter the name(s) of the wholesale agency if not on the list (comma delimited)

Santa Barbara County Water Agency

## Is Your Agency Performing Website Updates?

Enter your agency's URL (website address):

www.ci.santa-maria.ca.us

Describe a minimum of four water conservation related updates to your agency's website that took place during the year:

Did at least one Website Update take place during each quarter of the reporting year?

☒ Yes ☐ No

## Public Outreach Annual Budget

Enter budget for public outreach programs. You may enter total budget in a single line or break the budget into discrete categories by entering many rows. Please indicate if personnel costs are included in the entry.

1.) Press Release:  
Water Awareness  
Month

2.) Press Release  
Water Conservation  
Website

3.) Press Release  
Fix-A-Leak Week

4.) Press Release  
Water Conservation Survey

Category	Amount	Transaction Type	Personnel Costs Included?	Comments	Actions
			<input type="checkbox"/>		Update

Save

↓

- Water Conservation Budget  
Ads & Publications - \$ 25,834.<sup>00</sup>

- Water Conservation Budget  
Promotion & Publicity - \$ 6,503.<sup>00</sup>

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## BMP 2

Public Outreach  
Public Outreach Cont'd  
School Education

## BMP 3 - Residential

Traditional  
Flex Track

## BMP 4 - CII

Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## BMP 2.1 Public Outreach Cont'd

View MOU

Save

9538.42 true

## Public Outreach Expenses

Enter expenses for public outreach programs. Please include the same kind of expenses you included in the question related to your budget (Section 2.1.7, above). For example, if you included personnel costs in the budget entered above, be sure to include them here as well.

New

Expense Category	Expense Amount	Personnel Costs Included?	Actions	
Water Conservation Kits	5,142		Edit	Delete
Water Conservation Bus Ads	3,000		Edit	Delete
Water Conservation Shower Timers	1,396		Edit	Delete
	9,538			

## Additional Public Information Program

You may report additional public information contacts. PLEASE list these additional contacts in order of how your agency views their importance / effectiveness with respect to conserving water, with the most important/ effective listed first.

Were there additional Public Outreach efforts?

☒ Yes ☐ No

## Public Outreach Additional Information

New

Public Information Programs	Importance	Actions	
Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets		Edit	Delete
General water conservation information		Edit	Delete
Website		Edit	Delete
Website - provide link to or list of qualified landscape professionals (WaterSense, California Landscape Contractors Association, Irrigation Association, etc.) and other helpful sites		Edit	Delete
Booths at local fairs/events		Edit	Delete
Presentations		Edit	Delete
Media outreach: news releases, editorial board visits, written editorials, CUWCC Reporting Database Update - Business Requirements Document Page 92 of 132 newspaper contacts, television contacts, radio contacts, articles or stories resulting from outreach. Provide names of local media markets: newspaper, TV stations, radio stations reached via media outreach program during the reporting period		Edit	Delete
Sponsor or co-sponsor landscape workshops/training for homeowners and/or homeowners associations: number of presentations; number in attendance		Edit	Delete
Sponsor or co-sponsor landscape workshops/training for homeowners and/or homeowners associations: number of presentations; number in attendance		Edit	Delete
Landscape watering calculator and watering index to assist with weekly irrigation scheduling		Edit	Delete
Total reporting period budget expenditure for public outreach/training/adult education programs (include all agency costs)		Edit	Delete

## Social Marketing Programs



**Branding**Does your agency have a water conservation "brand," "theme" or mascot? ☒ Yes ☐ No

Describe the brand, theme or mascot.

Theme: USE WATER WISELY!

Spanish: use el agua sabiamente!

**Market Research**Have you sponsored or participated in market research to refine your message? ☒ Yes ☐ No

Market Research Topic

CWAC - California Water Awareness Campaign

Brand Message

N/A

Brand Mission Statement

N/A

**Community Committees**Do you have a community conservation committee? ☒ Yes ☐ No

Select the name(s) of Focus or Foci

Conservation in general

Enter the name of Focus if not on list:

Santa Barbara County Water Agency

**Training**

New

Training Type	# of Trainings	# of Attendees	Description of Other	Actions
Professional Landscapers	1	20		Edit Delete

**Social Marketing Expenditures****Public Outreach Social Marketing Expenses**

New

Expense Category	Expense Amount	Description	Actions
------------------	----------------	-------------	---------

No data to display

**Partnering Programs - Partners**

Name

Type of Program

☐ CLCA?☐ Green Building Programs?☐ Master Gardeners?☐ Cooperative Extension?☐ Local Colleges?☒ Other Green Business Program☐ Retail and wholesale outlet; name(s) and type(s) of programs:**Partnering Programs - Newsletters**

Select the type of newsletter articles published in other entities' newsletters

Number of newsletters per year

3

Number of customers per year

**Partnering with Other Utilities**

Describe other utilities your agency partners with, including electrical utilities

N/A

**Conservation Gardens**

Describe water conservation gardens at your agency or other high traffic areas or new

**Landscape contests or awards**

Describe water wise landscape contest or awards program conducted by your agency

Save

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## GPCD

[GPCD](#)

## BMP 2.2 School Education Programs, Retail Agencies

[View MOU](#)

Save

## Required School Programs

Is a wholesale agency implementing school programs which can be counted to help your agency comply with this BMP?

☒ Yes ☐ No

Enter Wholesaler Names, separated by commas:

Santa Barbara County  
Water Agency☒ Materials meet state education framework requirements?

Description of Materials

Activity books educating students how to conserve water, water cycle, recycling

☒ Materials distributed to K-6 Students?

Description of materials distributed to K-6 Students

N/A

Number of students reached

1063

☐ Materials distributed to 7-12 Students?

Description of materials distributed to 7-12 Students

None

Number of Distribution

0

Annual budget for school education program

\$3385.17

Description of all other water supplier education programs

Class presentations, workshops, public events, etc.

## Voluntary School Program Activities

## Classroom presentations:

Number of presentations

51

Conservation

Number of attendees

1063

## Large group assemblies:

Number of presentations

2

Number of attendees

40

## Children's water festivals or other events:

Number of presentations

14

Number of attendees

15,000

Cooperative efforts with existing science/water education programs (various workshops, science fair awards or judging) and follow-up:

Number of presentations

2

Number of attendees

40

## Other methods of disseminating information (i.e. themed age-appropriate classroom loaner kits):

Description

Book Lending Program - Provided through the Santa Barbara County Water Agency

Number distributed

6

**Staffing children's booths at events & festivals:**

Number of booths

14

Number of attendees

15,000**Water conservation contests such as poster and photo:**

Description

Annual Water Awareness School Poster Contest

High School Video Contest

Number distributed

1400**Offer monetary awards/funding or scholarships to students:**

Number Offered

6

Total Funding

~~500.00~~ 2000.00**Teacher training workshops:**

Number of presentations

0

Number of attendees

0**Fund and/or staff student field trips to treatment facilities, recycling facilities, water conservation gardens, etc.:**

Number of tours or field trips

0

nts

0**College internships in water conservation offered:**

Number of internships

0

Total funding

0**Career fairs/workshops:**

Number of presentations

4

Number of attendees

4000**Additional program(s) supported by agency but not mentioned above:**

Description

Number of events (if applicable)

14

Number of participants

15,000**Total reporting period budget expenditures for school education programs (include all agency costs):**163385.77

Save

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## GPCD

[GPCD](#)

## BMP 3 Residential Traditional

[View MOU](#)

Survey Year 2009

Save All

Residential Assistance / Leak Detection	Single Family				Multi Family			
	Number	Requirement	Percent Compliant	Compliant	Number	Requirement	Percent Compliant	Compliant
# Accounts	6,949				2,283			
# Participants Overall			0%				0%	
# Leak Det Surveys		104	0%			34	0%	
# Showerheads			0%				0%	
# Faucet Aerators			0%				0%	
Landscape Water Survey			0%				0%	

## # Other Components

# Description of Other Components Distributed: Water Conservation Kits include: low-flow showerhead; bathroom faucet aerators; kitchen swivel; fill cycle

## High Efficiency Clothes Washers HECW

(Agency must complete information for at least one coverage option. You are encouraged to include information on other coverage options, as available; if seeking credit for additional water savings, you must fill out Flex Track.)

	Number	Requirement	Percent Compliant	Compliant?
Number of incentives for HECWs with an AVERAGE Water Factor of 5.0		NaN	NaN%	0

Financial incentives provided for HECWs that meet an average WF value of 5.0 or less ☐ Yes ☒ NoAgency Demonstration Done ☐ Yes ☒ No

## HECW Market Penetration Study Documents

N/A  
Upload Clear

Browse...

## WaterSense Specification (WSS) toilets

(Agency must complete information for at least one coverage option. You are encouraged to include information on other coverage options, as available; if seeking credit for additional water savings, you must fill out Flex Track.)

## 1. Retrofit on Resale Ordinance is in Place

☐ Yes ☒ No

Title 9 - Ordinance

If Yes, Choose A File

Upload Clear

Browse...

## 2. A 75% Market Saturation Achieved

☐ Yes ☒ No

If Yes, Choose A File

N/A  
Upload Clear

Browse...

## 3. WSS Toilets Installed

Single Family

Multi Family

Ⓢ Per Bob Marshall  
No records kept on file when new developers install new fixtures or other water saving components

	Number	Requirement	Percent Compliant	Compliant?		Number	Requirement	Percent Compliant	Compliant?
Number of WSS Toilets Installed									
Select or Enter Name of Other Components Distributed	<input type="text"/>								
Other Program Type Name	<input type="text"/>								
<b>WSS for New Residential Development</b> (Agency must complete information for at least one coverage option. You are encouraged to include information on other coverage options, as available; if seeking credit for additional water savings, you must fill out Flex Track.)									
Water Regulation In Effect For Single-Family Homes			<input checked="" type="radio"/> Yes <input type="radio"/> No						
Water Regulation In Effect For Multi-Family Homes			<input checked="" type="radio"/> Yes <input type="radio"/> No						
New Multi-Family development Ordinance/Regulation	<input type="text" value="Title 9"/> Upload Clear				<input type="button" value="Browse..."/>				
Retrofit Done On Resale Ordinance			<input type="radio"/> Yes <input checked="" type="radio"/> No						
Number Of New Single-Family Units Built In SA			<input type="text" value="0"/>		Number Of New Multi-Family Units Built In SA		<input type="text"/>		
<b>List of Incentive Amounts</b> <input type="button" value="New"/>									
Incentive Type	Incentive amounts		Number of WSS fixtures installed		Actions				
<div>No incentives</div> <div>No data to display</div>									
Number Of Participating Single-Family Homes	6,949		Number Of Participating Multi-Family Homes		2,283				

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Report the measure type and quantity installed, as well as savings attributed to water shortage measures, intervention and actions

Water savings goal based on 10% of the 10 Year Baseline Water Use

[New](#)

CII Traditional Saving			
Measure Type	Quantity Installed	Water Savings	Actions
			Total Savings: 0.00

④ Website database does not allow other information to be inputted / need more detailed description

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**BMP 5 - Landscape**  
Traditional  
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**GPCD**  
GPCD

**BMP 5 Landscape** [View MOU](#)  
[Save](#)**CII Accounts with Dedicated Irrigation Meters**  
Number of dedicated irrigation meter accounts  
Number of dedicated irrigation meter accounts with water budgets  
Aggregate water use for dedicated non-recreational landscape accounts with budgets  
Aggregate acreage assigned water budgets for dedicated non-recreational landscape accounts with budgets  
Aggregate acreage of recreational areas assigned water budgets and average ET for dedicated recreational landscape accounts with budgets  
Preserved water use records and budgets for customers with dedicated landscape irrigation accounts for at least four years ☐ Yes ☐ No**Technical Assistance**  
Number of Accounts 20% over-budget  
Number of accounts 20% over-budget offered technical assistance  
Number of accounts 20% over-budget accepting technical assistance**Irrigation Water Use Surveys for Mixed-use and Un-metered Accounts**  
Number of mixed use and un-metered accounts  
Number of irrigation water use surveys offered  
Number of irrigation water use surveys accepted  
Estimated annual water savings by customers receiving irrigation water save surveys and implementing recommendations**Financial Incentives** [New](#)

Number of incentives	Dollar value of incentives	Incentive Types	Actions
No data to display			

Ⓢ Request for an Exemption

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Optional -

## BMP 3 Residential FlexTrack

[View MOU](#)

Save All

You must enter all measured water savings manually entered in the summary cells on the right. For each measure entered, upload a spreadsheet with sufficient information to show the way that water savings were measured and that the measure was adequately tracked (i.e., all relevant data was collected) - in some cases there are specific data points also requested in the flex track data entry form which are necessary to show that the measure was implemented as described.

## Residential Flex Track Measure Types

Measured  
water savings  
(AF/Year)☐ Traditional Measures Water Savings Contribution

	Number	Water Savings Factor (GPD)	Water Savings
Res Assistance Program SF	6949	20.00	
Res Assistance Program MF	2283	20.00	
Res Landscape Surveys SF		25.90	
Res Landscape Surveys MF		27.95	
Res HECW	0	21.10	0.00
Res WSS Toilet SF	0	26.60	0.00
Res WSS Toilet MF	0	26.60	0.00

Total Traditional Measure Water Savings	168.15	(GPD)
	0.19	(AF/Year)

&gt; database to calculate figures

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

Upload

Clear

Browse...

## 1) High bill contact with single-family and multi-family customers.

Select the Types of  
Contact:☐ Email☒ Phone☒ Letter☒ Others (describe)

Door Hangers

Upload sample of contact  
contents (email, letter, etc.)  
- if applicable

Upload

Clear

Browse...

Who initiated the  
contact:

Select an Option

CSM Utilities Dept.  
CSR

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

Upload Clear Browse...

2) Educate residential customers about the behavioral aspects of water conservation.

yes

Select types of educational methods used:	# Events	# Customers Reached
<input checked="" type="checkbox"/> Workshop	2	40
<input checked="" type="checkbox"/> Community Event	14	15,000
<input type="checkbox"/> Letter		
<input checked="" type="checkbox"/> On-Site Visit	48	48
<input type="checkbox"/> Phone Call		
<input checked="" type="checkbox"/> Water Survey	2475	400
<input checked="" type="checkbox"/> Website Hit		
<input type="checkbox"/> Door Hanger		
<input type="checkbox"/> Other (Describe)		
	0	0

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

Upload Clear Browse...

Shannon/Hosli

3) Notify residential customers of leaks on the customer's side of the meter.

yes

How many were sent out? On site visit/call/door hanger  
 Upload sample notification method(email, letter, etc.) - if applicable

Upload Clear Browse...

Example attach - orange tag w/label

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

Upload Clear Browse...

Shannon/Hosli

4) Provide bill or surcharge refunds for customers to repair leaks on the customer's side of the meter.

~~yes~~ No

Number of Leaks Repaired  
 Number of bill adjustments/credits/refunds provided  
 Describe here or upload a document with a policy description below:

- City Order

Sec. 8-10. 31. Disputed Accts.



Upload file describing Policy

Upload Clear

Browse...

5) Provide unique water saving fixtures that are not included in the BMP list above.

New

Fixture or Device	Description	Quantity Installed	Actions
No data to display			

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

Upload Clear

Browse...

6) Install residence water use monitors.

Type of Monitor:	Brand	Number Installed
<input type="checkbox"/> Dashboard		
<input checked="" type="checkbox"/> Leak Detector	Census	7853
<input type="checkbox"/> Data Logger		

5 x 5 day  
- Hourly Reads

(51,000 accts)  
total

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

Upload Clear

Browse...

7) Participate in programs that provide residences with school water conservation kits.

Yes

Number of Kits Distributed 1500

Kit contents (including model of fixtures)

List of what was actually installed in the homes (number of showerheads, aerators etc.).

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

(Yr.  
2009-500  
Nov.)

Shannon/  
Hosli

Kit includes a low-flow  
showerhead, bathroom  
faucet aerators, kitchen  
swivel, fill cycle diverter,  
leak detection tablet,  
flow flow meter bag  
with installation instructions

Upload

Clear

Browse...

**8) Implement an automatic meter reading program for residential customers.**

Yes

AMR or AMI

Select an Option

Type of Network

Select an Option

Fixed Based

Number of connections installed

Is your agency using these to contact high-use connections?

Yes

**If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)**

Upload

Clear

Browse...

**OTHER Types of Measures.**

New

Type of Program	Sample/Description	Actions
No data to display		

**If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)**

Upload

Clear

Browse...

**Total Measured Water Savings (AF/Year)** 0

Save All

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**Section 8-10.31. Disputed accounts.**

Disputed accounts where a significant excess of water has been metered, and upon investigation by the Utilities

Department, it is found to have been due to hidden leaks or causes not detectable by the consumer in the exercise of

ordinary care, may be adjusted by the

Director of Utilities on the basis of the

average consumption indicated from

past records for a like period, plus an

amount as provided in the Schedule of Fees

and Charges within this Code for

excess water metered or lost; provided, that

the consumer shall furnish sufficient

evidence to the satisfaction of the

Director of Utilities that corrective measures

have been taken. (Prior Code § 20-46 (part);

Ord. 2005-01, eff. 3/3/05)

# CIUDAD DE SANTA MARIA



## DEPARTAMENTO DE UTILIDADES

Factura: 110 E. Cook Street

Teléfono 925-0951, ext. 218 o 217

Fecha: \_\_\_\_\_ Hora: \_\_\_\_\_

Our records and observation indicate that:

- ☐ a leak
- ☐ high consumption (landscape)

may be present on your property. This could reflect on a higher water bill and is the customer's responsibility to maintain their own plumbing.

CUBIC FT PER HOUR  
7.48 GALLONS PER CUBIC FT

## 2010 Activity Report Forms for Demand Management Measures

---





City of Santa Maria

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## Annual Reports

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## Reporting Year

&lt; 2010 &gt;

## Water Sources and Usage

## Sources

## Uses

## BMP 1

[Operations Practices](#)  
[Water Loss Control](#)  
[Metering with Commodity](#)  
[Retail Conservation Pricing](#)

## BMP 2

[Public Outreach](#)  
[Public Outreach Cont'd](#)  
[School Education](#)

## BMP 3 - Residential

[Traditional](#)  
[Flex Track](#)

## BMP 4 - CII

[Traditional](#)  
[Flex Track](#)

## BMP 5 - Landscape

[Traditional](#)  
[Flex Track](#)

## GPCD

[GPCD](#)

## Water Sources

Service Area Population: 99,553

[Save](#)

## Potable

## Own Sources

[New](#)

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
Wells	3,044	Groundwater	<a href="#">Edit</a> <a href="#">Delete</a>
Total: 3,044.00			

## Imported Water

[New](#)

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
State Water	10349	Surface	<a href="#">Update</a> <a href="#">Cancel</a>
Total: 0.00			

## Exported Water

[New](#)

Supply Source Name	Quantity Exported (AF/Year)	Where Exported	Actions
			<a href="#">Update</a> <a href="#">Cancel</a>
Total: 0.00			

Net Potable Into the System: AF/Year

## Non Potable

## Own Sources

[New](#)

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
Well	66	Groundwater	<a href="#">Update</a> <a href="#">Cancel</a>
Total: 0.00			

## Imported Water

[New](#)

Supply Source Name	Quantity Supplied (AF/Year)	Water Supply Type	Actions
No data to display			
Total : 0.00			

## Exported Water

[New](#)

Supply Source Name	Quantity Exported (AF/Year)	Where Exported	Actions
No data to display			
Total : 0.00			

Net NonPotable Into the System: AF/Year

City of Santa Maria

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## Reporting Year

&lt; 2010 &gt;

## Water Sources and Usage

[Sources](#)[Uses](#)

## BMP 1

[Operations Practices](#)  
[Water Loss Control](#)  
[Metering with Commodity](#)  
[Retail Conservation Pricing](#)

## BMP 2

[Public Outreach](#)  
[Public Outreach Cont'd](#)  
[School Education](#)

## BMP 3 - Residential

[Traditional](#)  
[Flex Track](#)

## BMP 4 - CII

[Traditional](#)  
[Flex Track](#)

## BMP 5 - Landscape

[Traditional](#)  
[Flex Track](#)

## GPCD

[GPCD](#)

## Water Uses

## Potable

Billed						New	
Property Type	Metered # Accounts	Metered Water Delivered (AF/Year)	Un-Metered # Account	Un-Metered WaterDelivered In AF	Actions		
Single-Family	18,436	6,605.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Multi-Family	787	2,231.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Commercial	947	1,252.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Industrial	89	337.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Institutional	947	1,252.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Dedicated Irrigation	355	1,054.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
System Flushing	0	0.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Fire Lines	0	0.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Total : 12,731.00				Total : 0.00			

## Un-Billed

Un-Billed						New	
Property Type	Metered # Account	Metered Water Deliveries (AF/Year)	Un-Metered # Account	Un-Metered Water Deliveries AF/Year	Actions		
Single-Family					<a href="#">Edit</a>	<a href="#">Delete</a>	
Multi-Family					<a href="#">Edit</a>	<a href="#">Delete</a>	
Commercial					<a href="#">Edit</a>	<a href="#">Delete</a>	
Industrial					<a href="#">Edit</a>	<a href="#">Delete</a>	
Institutional					<a href="#">Edit</a>	<a href="#">Delete</a>	
Dedicated Irrigation					<a href="#">Edit</a>	<a href="#">Delete</a>	
System Flushing					<a href="#">Edit</a>	<a href="#">Delete</a>	
Fire Lines					<a href="#">Edit</a>	<a href="#">Delete</a>	
Total : 0.00				Total : 0.00			

Net Potable Into the System: 12,731.00 AF/Year

## Non Potable

Billed						New	
Property Type	Metered # Accounts	Metered Water Delivered (AF/Year)	Un-Metered # Accounts	Un-Metered Water Delivered (AF/Year)	Actions		
Agricultural	1	2.00	0	0.00	<a href="#">Edit</a>	<a href="#">Delete</a>	
Total : 2.00				Total : 0.00			

Un-Billed					New
Property Type	Metered # Accounts	Metered Water Deliveries (AF/Year)	Un-Metered # Accounts	Un-Metered Water Deliveries (AF/Year)	Actions
Agricultural					<div>EditDelete</div>
		Total : 0.00			Total : 0.00
Net NonPotable Into the System: 2.00 AF/Year					

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City of Santa Maria

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## Annual Reports

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## Reporting Year

&lt; 2010 &gt;

## Water Sources and Usage

[Sources](#)  
[Uses](#)

## BMP 1

[Operations Practices](#)  
[Water Loss Control](#)  
[Metering with Commodity](#)  
[Retail Conservation Pricing](#)

## BMP 2

[Public Outreach](#)  
[Public Outreach Cont'd](#)  
[School Education](#)

## BMP 3 - Residential

[Traditional](#)  
[Flex Track](#)

## BMP 4 - CII

[Traditional](#)  
[Flex Track](#)

## BMP 5 - Landscape

[Traditional](#)  
[Flex Track](#)

## GPCD

[GPCD](#)

## BMP 1.1 Operations Practices

[View MOU](#)

Save

## Conservation Coordinator

Conservation Coordinator ☒ Yes ☐ No

## Contact Information

First Name	Myra	Street Address 1	2065 E. Main Street
Last Name	Ritchie	Street Address 2	
Title	Water Conservation Specialist	City	Santa Maria
Phone	805-925-0951 Ext. 7235	State	CA
Mobile Phone	805-310-6483	Postal Code	93454
Email	mritchie@ci.santa-maria.ca.us		

## Water Waste Prevention

**An agency MUST do at least one of the following five strategies; although water agencies are encouraged to do them all when possible.**☒ **Option A** (Describe, upload or provide an electronic link to, the ordinance or terms of service adopted by your agency to meet the water waste prevention requirements of this BMP.)

Upload File

Upload Clear Browse...

Uploaded filename: [Water Waste Prohibition - City Ordinance.pdf](#)

URL

Describe Ordinance or Terms

The city ordinances 8-10-32 and 8-10-33 states that all customers are required to maintain in good repair all of their pipes, faucets, valves, plumbing fixtures or any other water-use appliances, at all times to prevent the waste of water. The City has the right to shut off the water by the water division and will not be turned on again

☒ **Option B** (Describe, upload, or provide an electronic link to, any water waste prevention ordinances or requirements adopted by your local jurisdiction(s) or regulatory agencies within your service area.)

Upload File

Upload Clear Browse...

Uploaded filename: [Copy of Water Waste Prohibition - City Ordinance.pdf](#)

URL

Describe Ordinances or Requirements

Section 8-10.33 states that the water may be shut off and sealed by the Utilities Department until a turn on fee is paid if the customer is found to willfully and negligently wastes water through the misuse of sprinkler. 9-4.08 states that all commercial car wash facilities, including self wash, shall have a water recycling system and the

☐ **Option C** (Describe, upload or provide an electronic link to, any documentation of Support provided for legislation or regulations that prohibit water waste.)



## Upload File

Upload

Clear

Browse...

## URL

Describe the support provided for legislation or regulations that prohibit water waste.

☐ **Option D** (Describe your agency's efforts to cooperate with other entities in the adoption or enforcement of local requirements consistent with this BMP.)

Describe Efforts

☐ **Option E** (Describe your agency's support positions with respect to adoption of legislation or regulations that are consistent with this BMP.)

Describe Legislation

## Enforcement Reporting

Select from the list your agency's water waste prevention program and rank the importance of each program (where 1 = most important)

New

Water Waste Prevention Type	Importance Ranking	Description	Actions
No data to display			

## Select the BMP for which support is provided

This section needs to be completed by the wholesale water agencies

## Financial Investments &amp; Building Partnerships

Enter the types of BMP Number Provided. Click the New button to add a new line, then click Update when finished.

New

BMP Name	Expense	Equivalent Resources Provided	Actions
No data to display			

## Technical Support

Enter the types of Technical Support Provided. Click the New button to add a new line, then click Update when finished.

New

Technical Support Type	Technical Support Expenses	Description	Actions
No data to display			

**Program Management**

Enter the types of BMP Name Provided. Click the New button to add a new line, then click Update when finished.

[New](#)

BMP Name	Program Description	Organization Name	Actions
No data to display			

**Water Shortage Allocation**

Agency Has A Water Shortage Allocation Plan or Policy ☒ Yes ☐ No

Upload File

[Browse...](#)  
   
Uploaded filename: [DraftSection\\_WaterShortageContingencyPlanning.docx](#)

Date of Adoption

**Encourage CUWCC Membership**

List Efforts to Recruit Retail Agencies

Amount of Dues Paid on Behalf of Retail Agencies

\$3350.54

② 2010 Dues / Membership

Revision: 2315

City of Santa Maria

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## Annual Reports

Enter Annual Reports

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## Reporting Year

&lt; 2010 &gt;

## Water Sources and Usage

Sources  
Uses

## BMP 1

Operations Practices  
Water Loss Control  
Metering with Commodity  
Retail Conservation Pricing

## BMP 2

Public Outreach  
Public Outreach Cont'd  
School Education

## BMP 3 - Residential

Traditional  
Flex Track

## BMP 4 - CII

Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## BMP 1.2 Water Loss Control

[View MOU](#)

Save

## AWWA Water Audit

Agency to complete a Water Audit & Balance Using The AWWA Software  
Upload Worksheets (AWWA Water Audit)☒ Yes ☐ No

Upload

Clear

Browse...

Agency Test Source, Import &amp; Production Meters this Reporting Year

☒ Yes ☐ No

Water Audit Validity Score

72%

Agency Completed Training In The AWWA Water Audit Method

☒ Yes ☐ No

Agency Completed Training In The Component Analysis Process

☒ Yes ☐ No

Completed/Updated the Component Analysis (at least every 4 years)?

☐ Yes ☒ No

Component Analysis Completed/Updated Date

4/11/11

## Water Loss Performance

Agency Demonstrated Progress in Water Loss Control Performance

☒ Yes ☐ No

Agency Repaired All Reported Leaks &amp; Breaks To The Extent Cost Effective

☒ Yes ☐ No

Agency Established &amp; Maintained a Record Keeping System For The Repair of Reported Leaks for The Following

Date/Time Leak Reported ☒ Yes ☐ NoLeak Location ☒ Yes ☐ NoType of Leaking Pipe Segment or Fitting ☒ Yes ☐ NoLeak Running Time From Report to Repair ☒ Yes ☐ NoLeak Volume Estimate : ☒ Yes ☐ NoCost of Repair: ☒ Yes ☐ No

Agency Located and Repaired Unreported Leaks to the Extent Cost Effective

☒ Yes ☐ No

Type of Program Activities Used to Detect Unreported Leaks

## Annual Summary Information

Complete the following table with annual summary information (required for reporting years 2-5 only)

New

Total Leaks Repaired	Economic Value Of Real Loss	Economic Value Of App Loss	Miles Of System Surveyed For Leaks	Pressure Reduction Undertaken for loss reduction	Cost Of Interventions	Water Saved (AF/Year)	Actions
							Update Cancel

## AWWA Model

Please download the current [AWWA Water Audit Excel file here](#)

This information  
can be obtained  
from the AWWA  
Water Audit  
Spreadsheet

Revision: 2315



# AWWA Water Loss Control Committee (WLCC) Free Water Audit Software v4.1

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WAS v4.1

**PURPOSE:** This spreadsheet-based water audit tool is designed to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery. It provides a "top-down" summary water audit format, and is not meant to take the place of a full-scale, comprehensive water audit format.

**USE:** The spreadsheet contains several separate worksheets. Sheets can be accessed using the tabs towards the bottom of the screen, or by clicking the buttons on the left below. Descriptions of each sheet are also given below.

**THE FOLLOWING KEY APPLIES THROUGHOUT:**

- Value can be entered by user
- Value calculated based on input data
- These cells contain recommended default values

Please begin by providing the following information, then proceed through each sheet in the workbook:

NAME OF CITY OR UTILITY:  COUNTRY:   
REPORTING YEAR:  START DATE(MM/YYYY):  END DATE(MM/YYYY):   
NAME OF CONTACT PERSON:  E-MAIL:  TELEPHONE:   
Ext.

PLEASE SELECT PREFERRED REPORTING UNITS FOR WATER VOLUME:

Click to advance to sheet...

Click here:  for help about units and conversions

<b>Instructions</b>	The current sheet
<b>Reporting Worksheet</b>	Enter the required data on this worksheet to calculate the water balance
<b>Water Balance</b>	The values entered in the Reporting Worksheet are used to populate the water balance
<b>Grading Matrix</b>	Depending on the confidence of audit inputs, a grading is assigned to the audit score
<b>Service Connections</b>	Diagrams depicting possible customer service connection configurations
<b>Definitions</b>	Use this sheet to understand terms used in the audit process
<b>Loss Control Planning</b>	Use this sheet to interpret the results of the audit validity score and performance indicators

**Comments:**

Add comments here to track additional supporting information, sources or names of participants

If you have questions or comments regarding the software please contact us at: [wlc@awwa.org](mailto:wlc@awwa.org)



# AWWA WLCC Free Water Audit Software: Reporting Worksheet

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WAS v4.1

[Back to Instructions](#)

[Click to access definition](#)

Water Audit Report for: **City of Santa Maria Utilities Department**  
Reporting Year: **2010** **1/2010 - 12/2010**

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: **ACRE-FEET PER YEAR**

## WATER SUPPLIED

<< Enter grading in column 'E'

Volume from own sources:	<input type="text" value="5"/>	<input type="text" value="6,605.000"/>	acre-ft/yr
Master meter error adjustment (enter positive value):	<input type="text" value="5"/>	<input type="text" value="2.000"/>	over-registered acre-ft/yr
Water imported:	<input type="text" value="9"/>	<input type="text" value="10,349.000"/>	acre-ft/yr
Water exported:	<input type="text" value="7"/>	<input type="text" value="92.000"/>	acre-ft/yr
<b>WATER SUPPLIED:</b>		<b>16,860.000</b>	acre-ft/yr

## AUTHORIZED CONSUMPTION

Billed metered:	<input type="text" value="9"/>	<input type="text" value="13,072.000"/>	acre-ft/yr
Billed unmetered:	<input type="text" value="10"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled metered:	<input type="text" value="10"/>	<input type="text" value="0.000"/>	acre-ft/yr
Unbilled unmetered:	<input type="text" value="5"/>	<input type="text" value="210.750"/>	acre-ft/yr
Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed			
<b>AUTHORIZED CONSUMPTION:</b>		<b>13,282.750</b>	acre-ft/yr

Click here: [?](#)  
for help using option buttons below

Pent:  Value:

Use buttons to select percentage of water supplied OR value

**WATER LOSSES (Water Supplied - Authorized Consumption)** **3,577.250** acre-ft/yr

## Apparent Losses

Unauthorized consumption:	<input type="text" value="5"/>	<input type="text" value="42.150"/>	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed			
Customer metering inaccuracies:	<input type="text" value="7"/>	<input type="text" value="0.000"/>	acre-ft/yr
Systematic data handling errors:	<input type="text" value="6"/>	<input type="text" value="275.000"/>	acre-ft/yr
<b>Apparent Losses:</b>		<b>317.150</b>	

Pent:  Value:

Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

## Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:	<input type="text" value="5"/>	<input type="text" value="3,260.100"/>	acre-ft/yr
<b>WATER LOSSES:</b>		<b>3,577.250</b>	acre-ft/yr

## NON-REVENUE WATER

<b>NON-REVENUE WATER:</b>	<input type="text" value="5"/>	<b>3,788.000</b>	acre-ft/yr
= Total Water Loss + Unbilled Metered + Unbilled Unmetered			

## SYSTEM DATA

Length of mains:	<input type="text" value="9"/>	<input type="text" value="350.0"/>	miles
Number of active AND inactive service connections:	<input type="text" value="6"/>	<input type="text" value="21,500"/>	
Connection density:	<input type="text" value="5"/>	<input type="text" value="61"/>	conn./mile main
Average length of customer service line:	<input type="text" value="5"/>	<input type="text" value="15.0"/>	ft (pipe length between curbstop and customer meter or property boundary)
Average operating pressure:	<input type="text" value="9"/>	<input type="text" value="70.0"/>	psi

## COST DATA

Total annual cost of operating water system:	<input type="text" value="9"/>	<input type="text" value="\$6,834,010"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="text" value="6"/>	<input type="text" value="\$4.04"/>	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	<input type="text" value="7"/>	<input type="text" value="\$273.00"/>	\$/acre-ft/yr

## PERFORMANCE INDICATORS

### Financial Indicators

Non-revenue water as percent by volume of Water Supplied:	<input type="text" value="22.5%"/>
Non-revenue water as percent by cost of operating system:	<input type="text" value="22.0%"/>
Annual cost of Apparent Losses:	<input type="text" value="\$558,128"/>
Annual cost of Real Losses:	<input type="text" value="\$890,007"/>

### Operational Efficiency Indicators

Apparent Losses per service connection per day:	<input type="text" value="13.17"/>	gallons/connection/day
Real Losses per service connection per day*:	<input type="text" value="135.37"/>	gallons/connection/day
Real Losses per length of main per day*:	<input type="text" value="N/A"/>	
Real Losses per service connection per day per psi pressure:	<input type="text" value="1.93"/>	gallons/connection/day/psi
<input type="text" value="5"/> Unavoidable Annual Real Losses (UARL):	<input type="text" value="142.48"/>	million gallons/year
From Above, Real Losses - Current Annual Real Losses (CARL):	<input type="text" value="3,260.10"/>	million gallons/year
<input type="text" value="9"/> Infrastructure Leakage Index (ILI) [CARL/UARL]:	<input type="text" value="7.46"/>	

\* only the most applicable of these two indicators will be calculated

## WATER AUDIT DATA VALIDITY SCORE:

**\*\*\* YOUR SCORE IS: 72 out of 100 \*\*\***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

### PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

- 1: Volume from own sources
- 2: Master meter error adjustment
- 3: Water exported

[For more information, click here to see the Grading Matrix worksheet](#)



AWWA WLCC Free Water Audit Software: <u>Water Balance</u>					Water Audit Report For:		Report Yr:
Copyright © 2010, American Water Works Association. All Rights Reserved.					Department		2010
Own Sources  (Adjusted for known errors)  6,603.000	Water Exported  92.000	Billed Water Exported					
	Water Supplied  16,860.000	Authorized Consumption  13,282.750	Billed Authorized Consumption  13,072.000	Billed Metered Consumption (inc. water exported)  13,072.000	Revenue Water		
				Billed Unmetered Consumption  0.000	13,072.000		
			Unbilled Authorized Consumption  210.750	Unbilled Metered Consumption  0.000	Non-Revenue Water (NRW)		
				Unbilled Unmetered Consumption  210.750	3,788.000		
		Water Losses  3,577.250	Apparent Losses  317.150	Unauthorized Consumption  42.150			
				Customer Metering Inaccuracies  0.000			
				Systematic Data Handling Errors  275.000			
			Water Imported  10,349.000	Real Losses  3,260.100	Leakage on Transmission and/or Distribution Mains Not broken down		
	Leakage and Overflows at Utility's Storage Tanks Not broken down						
Leakage on Service Connections Not broken down							

City of Santa Maria

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## Annual Reports

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## Reporting Year

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## Water Sources and Usage

[Sources](#)  
[Uses](#)

## BMP 1

[Operations Practices](#)  
[Water Loss Control](#)  
[Metering with Commodity](#)  
[Retail Conservation Pricing](#)

## BMP 2

[Public Outreach](#)  
[Public Outreach Cont'd](#)  
[School Education](#)

## BMP 3 - Residential

[Traditional](#)  
[Flex Track](#)

## BMP 4 - CII

[Traditional](#)  
[Flex Track](#)

## BMP 5 - Landscape

[Traditional](#)  
[Flex Track](#)

## GPCD

[GPCD](#)

## BMP 1.3 Metering with Commodity Rates

[View MOU](#)

Save

## Implementation

Does your agency have any unmetered service connections? ☐ Yes ☒ NoIf YES, has your agency completed a meter retrofit plan? ☐ Yes ☐ NoIf YES, number of previously unmetered accounts fitted with meters during reporting year: Are all new service connections being metered? ☒ Yes ☐ NoAre all new service connections being billed volumetrically? ☒ Yes ☐ NoHas your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters? ☐ Yes ☒ No

## Please Fill Out The Following Matrix

Account Type	# Metered Accounts	# Metered Accounts Read	# Metered Accounts Billed by Volume	Billing Frequency Per Year	# of estimated bills/yr
Single Family	18,436	18,436	18,436	Monthly	12
Multi-Family	787	787	787	Monthly	12
Commercial	947	947	947	Monthly	12
Industrial	89	89	89	Monthly	12
Institutional	947	947	947	Monthly	12
Landscape Irrigation	355	355	355	Monthly	12

## Feasibility Study

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? ☐ Yes ☒ No

## If YES, please fill in the following information:

A. When was the Feasibility Study conducted 

B. Describe, upload or provide an electronic link to the Feasibility Study Upload File

Upload

Clear

Browse...

URL

Describe

Number of CII Accounts with Mixed-used Meters

Number of CII Accounts with Mixed-used Meters Retrofitted with Dedicated Irrigation Meters during Reporting Period

## At Least As Effective As

Is your agency implementing an "at least as effective as" variant of this BMP? ☒ Yes ☐ No

If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be

"at least as effective as."

**Comments****Comments On Metering with Commodity Rates**

All of the city's connections are being metered. There are no unmetered connections retrofitted during the reporting year.

Revision: 2315



City of Santa Maria

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## Annual Reports

Enter Annual Reports Agency Info My Account

## Reporting Year

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## Water Sources and Usage

Sources  
Uses

## BMP 1

Operations Practices  
Water Loss Control  
Metering with Commodity  
Retail Conservation Pricing

## BMP 2

Public Outreach  
Public Outreach Cont'd  
School Education

## BMP 3 - Residential

Traditional  
Flex Track

## BMP 4 - CII

Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## BMP 1.4 Retail Conservation Pricing

[View MOU](#)

0 0

Save

## Implementation (Water Rate Structure)

Enter the Water Rate Structures that are assigned to the majority of your customers, by customer class

New

Rate Structure Option	Customer Class Name	Total Revenue Commodity Charges	Total Revenue Customer Meter/Service (Fixed) Charges	Actions
Service Not Provided				Update Cancel
Increasing Block	Single Family	-10,733,292.23	0	Edit Delete
Increasing Block	Multi Family	-2,603,406.59	0	Edit Delete
Increasing Block	Commercial	-3,638,222.88	0	Edit Delete
Increasing Block	Industrial	-488,746.64	0	Edit Delete
Increasing Block	Institutional		0	Edit Delete
Increasing Block	Dedicated Irrigation	1,555,254.36	0	Edit Delete
Service Not Provided	Recycled	0	0	Edit Delete
Service Not Provided	Raw	0	0	Edit Delete
	Other		\$0	\$0

## Implementation Option (Conservation Pricing Option)

Please Select an Option

- ☒ Use Annual Revenue As Reported  
☐ Use Canadian Water & Wastewater Association Rate Design Model

## Annual Revenue as Reported

Total annual revenue from volumetric rates V = 0

Total annual revenue from customer meter/service (fixed) charges M = 0

## Retail Waste Water (Sewer) Rate Structure by Customer Class

No

Agency Provide Sewer Service

☒ Yes ☐ No

Select the Retail Waste Water(Sewer) Rate Structure assigned to the majority of your customers within a specific customer class.

New

Rate Structure Option	Customer Class Name	Total Revenue Commodity Charges	Total Revenue Customer Meter/Service (Fixed) Charges	Actions
Non-Volumetric Flat Rate	Single Family	2,158,433.12	0	Edit Delete
Non-Volumetric Flat Rate	Multi Family	-635,179.05	0	Edit Delete
Non-Volumetric Flat Rate	Commercial	-972,062.47	0	Edit Delete
Non-Volumetric Flat Rate	Institutional		0	Edit Delete

Hotel  
123,719.55

Mobile  
394,279.73

Motel  
248,960.75

Hotel 42,790.56      Mobile 117,263.14      Motel 106,349.40

Uniform Seasonal	Industrial 158,895.16	<input type="text"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Service Not Provided	Recycled	<input type="text"/>	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
		\$0	\$0	

**At Least As Effective As****If Agency Implemented an AT LEAST AS EFFECTIVE AS variant then Please Give Explanation**Agency is Implementing an AT LEAST AS EFFECTIVE AS variant of this BMP ☐ Yes ☐ No

Explanation of AT LEAST AS EFFECTIVE AS

**Exemption Request****If Agency has Requested an Exemption then please Select a Exemption Type**Agency has Requested an Exemption from Implementing this BMP ☐ Yes ☐ NoExemption Type 

Comments on Conservation Pricing BMP

Seven of our industrial sewer users are billed on volumetric use effected by monthly BODs and TSS readings taken from monthly samplings. The strength of their BOD and TSS readings effectshow much their monthly sewer bill is.

[Download Canadian Rate Manual, and Instructions](#)[Instructions](#)  
[Canadian Rate Manual](#)

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# Revenue by Category code and Account type

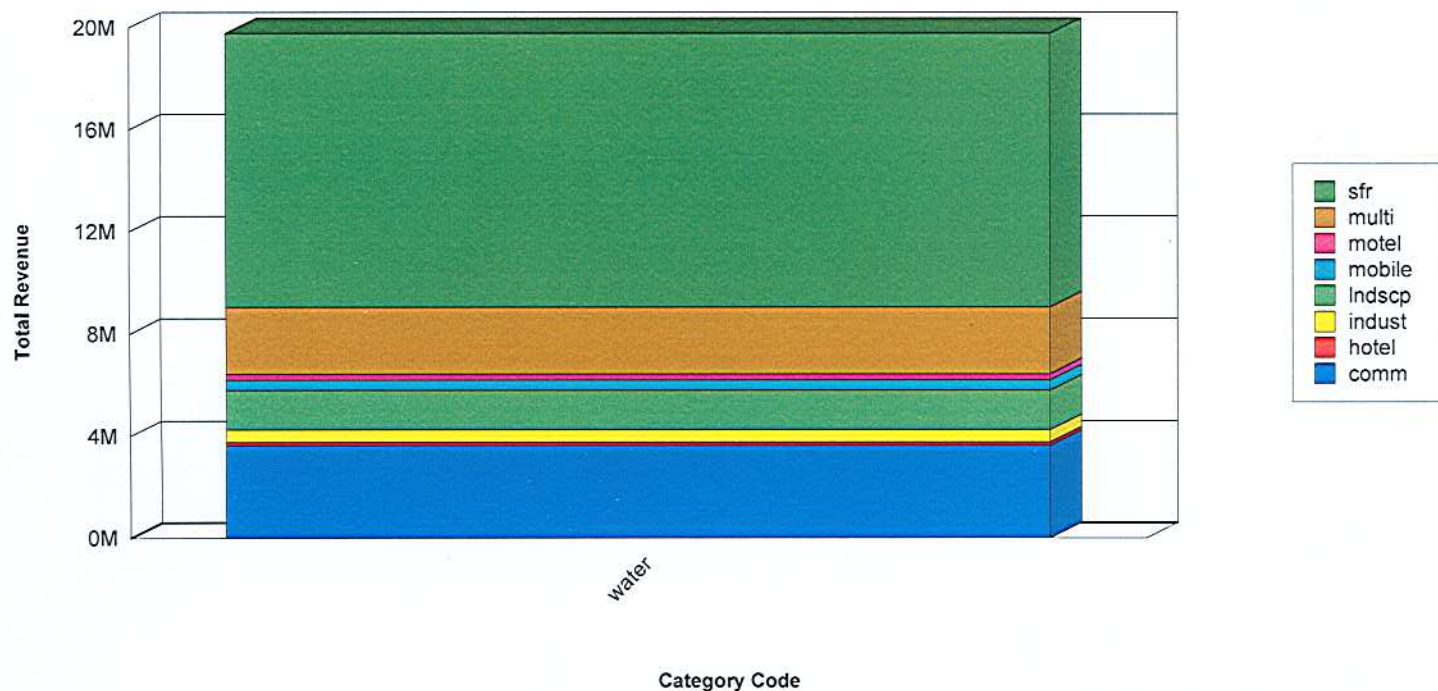
4/8/2011 10:18:10AM

City of Santa Maria

07/01/2010 through 03/31/2011

## Account Type

Category Code	Account Type			
	comm	hotel	indust	Indscp
water	3,638,222.88	123,719.55	488,746.64	1,555,254.36
Total	3,638,222.88	123,719.55	488,746.64	1,555,254.36



mobile	motel	multi	sfr	Total
394,279.73	248,960.75	2,603,406.59	10,733,292.23	19,785,882.73
394,279.73	248,960.75	2,603,406.59	10,733,292.23	19,785,882.73



# Revenue by Category code and Account type

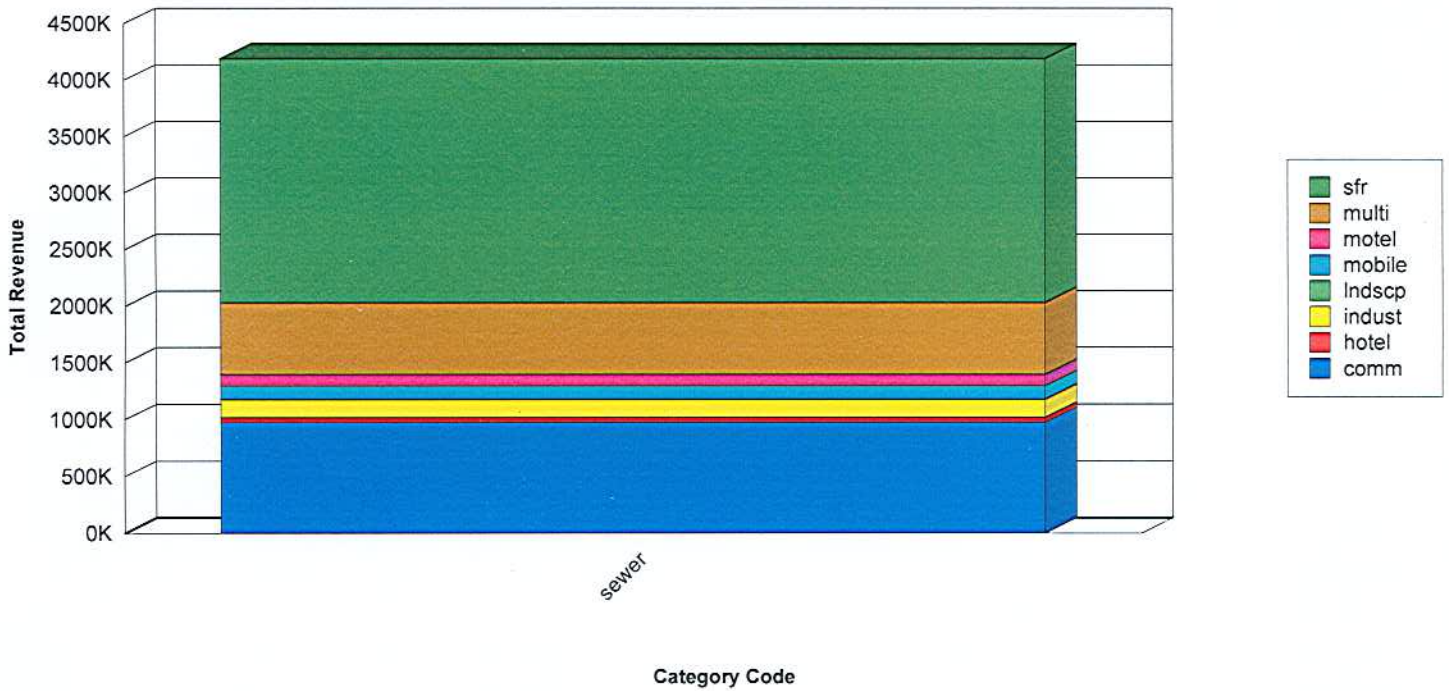
4/8/2011 11:06:55AM

City of Santa Maria

07/01/2010 through 03/31/2011

## Account Type

Category Code	Account Type			
	comm	hotel	indust	Indscp
sewer	977,062.47	42,790.56	158,895.16	1,332.23
Total	977,062.47	42,790.56	158,895.16	1,332.23



mobile	motel	multi	sfr	Total
117,263.14	100,349.40	635,179.05	2,158,433.12	4,191,305.13
117,263.14	100,349.40	635,179.05	2,158,433.12	4,191,305.13

City of Santa Maria

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## Annual Reports

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## Reporting Year

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## Water Sources and Usage

Sources  
Uses

## BMP 1

Operations Practices  
Water Loss Control  
Metering with Commodity  
Retail Conservation Pricing

## BMP 2

Public Outreach  
Public Outreach Cont'd  
School Education

## BMP 3 - Residential

Traditional  
Flex Track

## BMP 4 - CII

Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## BMP 2.1 Public Outreach

[View MOU](#)

Save

16 6 0

## Is a Wholesale Agency Performing Public Outreach?

Are there one or more wholesale agencies performing public outreach which can be counted to help your agency comply with the BMP?

☒ Yes ☐ No

Select the wholesale agency name(s)

Enter the name(s) of the wholesale agency if not on the list (comma delimited)

## Is the Retail Agency Performing Public Outreach?

Report a minimum of 4 water conservation related contacts your agency had with the public during the year.

## Public Information Programs List

New

Number of Public Contacts	Did at least one contact take place during each quarter of the reporting year?	Public Information Programs	Actions
16		General water conservation information	<a href="#">Edit</a> <a href="#">Delete</a>
16			

## Contact with the Media

Are there one or more wholesale agencies performing media outreach which can be counted to help your agency comply with the BMP?

☒ Yes ☐ No

Select the wholesale agency name(s)

Enter the name(s) of the wholesale agency if not on the list (comma delimited)

## OR Retail Agency (Contacts with the Media)

## Media Contacts List

New

Number of Media Contacts	Did at least one contact take place during each quarter of the reporting year?	Media Contact Types	Actions
6		News releases	<a href="#">Edit</a> <a href="#">Delete</a>
6			

## Is a Wholesale Agency Performing Website Updates?

Did one or more CUWCC wholesale agencies agree to assume your agency's responsibility for meeting the requirements of and for CUWCC reporting of this BMP?

☒ Yes ☐ No

Select the wholesale agency name(s)

Enter the name(s) of the wholesale agency if not on the list (comma delimited)

## Is Your Agency Performing Website Updates?

Enter your agency's URL (website address):

Describe a minimum of four water conservation related updates to your agency's website that took place during the year:

## Press Release

- Water Awareness Month
- Water Conservation Website
- Press Release / Fix A Leak
- Survey

Did at least one Website Update take place during each quarter of the reporting year?

☒ Yes ☐ No

## Public Outreach Annual Budget

Enter budget for public outreach programs. You may enter total budget in a single line or break the budget into discrete categories by entering many rows. Please indicate if personnel costs are included in the entry.

[New](#)

Category	Amount	Transaction Type	Personnel Costs Included?	Comments	Actions
No data to display					

[Save](#)

- Water Conservation  
Ads & Publications -

Budget  
\$ 19,896.00

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- Water Conservation  
Promotion & Publicity -

Budget  
\$ 5250.00



City of Santa Maria

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## Water Sources and Usage

Sources  
Uses

## BMP 1

Operations Practices  
Water Loss Control  
Metering with Commodity  
Retail Conservation Pricing

## BMP 2

Public Outreach  
Public Outreach Cont'd  
School Education

## BMP 3 - Residential

Traditional  
Flex Track

## BMP 4 - CII

Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## BMP 2.1 Public Outreach Cont'd

[View MOU](#)

Save

0.00 true

## Public Outreach Expenses

Enter expenses for public outreach programs. Please include the same kind of expenses you included in the question related to your budget (Section 2.1.7, above). For example, if you included personnel costs in the budget entered above, be sure to include them here as well.

New

Expense Category	Expense Amount	Personnel Costs Included?	Actions	
		<input type="checkbox"/>	Update	Cancel
Water Conservation Kits			Edit	Delete
Water Conservation Bud Ads			Edit	Delete
Water Conservation Shower Timers			Edit	Delete

## Additional Public Information Program

You may report additional public information contacts. PLEASE list these additional contacts in order of how your agency views their importance / effectiveness with respect to conserving water, with the most important/ effective listed first.

Were there additional Public Outreach efforts?

☒ Yes ☐ No

## Public Outreach Additional Information

New

Public Information Programs	Importance	Actions	
		Update	Cancel
Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets		Edit	Delete
General water conservation information		Edit	Delete
Website		Edit	Delete
Website - provide link to or list of qualified landscape professionals (WaterSense, California Landscape Contractors Association, Irrigation Association, etc.) and other helpful sites		Edit	Delete
Booths at local fairs/events		Edit	Delete
Presentations		Edit	Delete
Media outreach: news releases, editorial board visits, written editorials, CUWCC Reporting Database Update - Business Requirements Document Page 92 of 132 newspaper contacts, television contacts, radio contacts, articles or stories resulting from outreach. Provide names of local media markets: newspaper, TV stations, radio stations reached via media outreach program during the reporting period		Edit	Delete
Sponsor or co-sponsor landscape workshops/training for homeowners and/or homeowners associations: number of presentations; number in attendance		Edit	Delete
Landscape watering calculator and watering index to assist with weekly irrigation scheduling		Edit	Delete

## Social Marketing Programs

**Branding**

Does your agency have a water conservation "brand," "theme" or mascot? ☒ Yes ☐ No

Describe the brand, theme or mascot.

Theme: USE WATER WISELY!

Spanish: use el agua sabiamente!

**Market Research**

Have you sponsored or participated in market research to refine your message? ☒ Yes ☐ No

Market Research Topic

CWAC - California Water Awareness Campaign

Brand Message

Brand Mission Statement

**Community Committees**

Do you have a community conservation committee? ☒ Yes ☐ No

Select the name(s) of Focus or Foci

Conservation in general

Enter the name of Focus if not on list:

Santa Barbara County Water Agency

**Training**[New](#)

Training Type	# of Trainings	# of Attendees	Description of Other	Actions
Professional Landscapers	1	20		<a href="#">Edit</a> <a href="#">Delete</a>

**Social Marketing Expenditures****Public Outreach Social Marketing Expenses**[New](#)

Expense Category	Expense Amount	Description	Actions
------------------	----------------	-------------	---------

No data to display

**Partnering Programs - Partners**

Name

Type of Program

- ☐ CLCA?
- ☐ Green Building Programs?
- ☐ Master Gardeners?
- ☐ Cooperative Extension?
- ☐ Local Colleges?
- ☒ Other Green Business Program
- ☐ Retail and wholesale outlet; name(s) and type(s) of programs:

**Partnering Programs - Newsletters**

Select the type of newsletter articles published in other entities' newsletters

Number of newsletters per year

4

Number of customers per year

**Partnering with Other Utilities**

Describe other utilities your agency partners with, including electrical utilities

**Conservation Gardens**

Describe water conservation gardens at your agency or other high traffic areas or new

**Landscape contests or awards**

Describe water wise landscape contest or awards program conducted by your agency

Save

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City of Santa Maria

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## Water Sources and Usage

Sources  
Uses

## BMP 1

Operations Practices  
Water Loss Control  
Metering with Commodity  
Retail Conservation Pricing

## BMP 2

Public Outreach  
Public Outreach Cont'd  
School Education

## BMP 3 - Residential

Traditional  
Flex Track

## BMP 4 - CII

Traditional  
Flex Track

## BMP 5 - Landscape

Traditional  
Flex Track

## GPCD

GPCD

## BMP 2.2 School Education Programs, Retail Agencies

[View MOU](#)

Save

## Required School Programs

Is a wholesale agency implementing school programs which can be counted to help your agency comply with this BMP?

☒ Yes ☐ No

Enter Wholesaler Names, separated by commas:

Santa Barbara County Water Agency

☒ Materials meet state education framework requirements?

Description of Materials

Colorful activity books which educates students how to conserve water, learn about water cycle, and how to recycle.

☐ Materials distributed to K-6 Students?

Description of materials distributed to K-6 Students

N/A

Number of students reached

565

☐ Materials distributed to 7-12 Students?

Description of materials distributed to 7-12 Students

NOT APPLICABLE

Number of Distribution

Annual budget for school education program

2,000.00

Description of all other water supplier education programs

## Voluntary School Program Activities

## Classroom presentations:

Number of presentations

31

Conservation

Number of attendees

565

## Large group assemblies:

Number of presentations

1

Number of attendees

20

## Children's water festivals or other events:

Number of presentations

12

Number of attendees

10,000

## Cooperative efforts with existing science/water education programs (various workshops, science fair awards or judging) and follow-up:

Number of presentations

1

Number of attendees

20

## Other methods of disseminating information (i.e. themed age-appropriate classroom loaner kits):

Description

Book Lending Program - Provided through the Santa Barbara County Water Agency

Number distributed

6



**Staffing children's booths at events & festivals:**

Number of booths

12

Number of attendees

10,000

**Water conservation contests such as poster and photo:**

Description

Number distributed

**Offer monetary awards/funding or scholarships to students:**

Number Offered

5

Total Funding

1,500

**Teacher training workshops:**

Number of presentations

0

Number of attendees

0

**Fund and/or staff student field trips to treatment facilities, recycling facilities, water conservation gardens, etc.:**

Number of tours or field trips

Number of participants

**College internships in water conservation offered:**

Number of internships

0

Total funding

0

**Career fairs/workshops:**

Number of presentations

2

Number of attendees

2,000

**Additional program(s) supported by agency but not mentioned above:**

Description

Number of events (if applicable)

12

Number of participants

10,000

**Total reporting period budget expenditures for school education programs (include all agency costs):**

\$2,000

Save

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City of Santa Maria

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## Water Sources and Usage

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## BMP 4 - CII

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## BMP 5 - Landscape

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## GPCD

[GPCD](#)

## BMP 3 Residential FlexTrack

[View MOU](#)[Save All](#)

You must enter all measured water savings manually entered in the summary cells on the right. For each measure entered, upload a spreadsheet with sufficient information to show the way that water savings were measured and that the measure was adequately tracked (i.e., all relevant data was collected) - in some cases there are specific data points also requested in the flex track data entry form which are necessary to show that the measure was implemented as described.

## Residential Flex Track Measure Types

Measured  
water savings  
(AF/Year)☐ Traditional Measures Water Savings Contribution

0

	Number	Water Savings Factor (GPD)	Water Savings
Res Assistance Program SF	6605	20.00	
Res Assistance Program MF	2231	20.00	
Res Landscape Surveys SF		25.90	
Res Landscape Surveys MF		27.95	
Res HECW	0	21.10	0.00
Res WSS Toilet SF	0	26.60	0.00
Res WSS Toilet MF	0	26.60	0.00
Total Traditional Measure Water Savings		168.15	(GPD)
		0.19	(AF/Year)

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

[Upload](#)[Clear](#)[Browse...](#)☐ 1) High bill contact with single-family and multi-family customers.Select the Types of  
Contact:☐ Email☒ Phone☒ Letter☒ Others (describe)

Door Hangers

Upload sample of contact  
contents (email, letter, etc.)  
- if applicable[Upload](#)[Clear](#)[Browse...](#)Who initiated the  
contact:

Select an Option

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

2) Educate residential customers about the behavioral aspects of water conservation.

Select types of educational methods used:	# Events	# Customers Reached
<input checked="" type="checkbox"/> Workshop	<input type="text" value="1"/>	<input type="text" value="20"/>
<input checked="" type="checkbox"/> Community Event	<input type="text" value="12"/>	<input type="text" value="10,000"/>
<input type="checkbox"/> Letter	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/> On-Site Visit	<input type="text" value="12"/>	<input type="text" value="12"/>
<input type="checkbox"/> Phone Call	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/> Water Survey	<input type="text" value="2"/>	<input type="text" value="400"/>
<input checked="" type="checkbox"/> Website Hit	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Door Hanger	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Other (Describe) <input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text" value="27"/>	<input type="text" value="10,432"/>

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

3) Notify residential customers of leaks on the customer's side of the meter.

Type of Notification (Describe)

How many were sent out?

Upload sample notification method(email, letter, etc. ) – if applicable

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

4) Provide bill or surcharge refunds for customers to repair leaks on the customer's side of the meter.

Number of Leaks Repaired

Number of bill adjustments/credits/refunds provided

Describe here or upload a document with a policy description below:

Upload file describing Policy

5) Provide unique water saving fixtures that are not included in the BMP list above.



Fixture or Device	Description	Quantity Installed	Actions
No data to display			

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

6) Install residence water use monitors.



Type of Monitor:

- ☐ Dashboard  
☐ Leak Detector  
☐ Data Logger

Brand

Number Installed

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)

7) Participate in programs that provide residences with school water conservation kits.



Number of Kits Distributed

Kit contents (including model of fixtures)

List of what was actually installed in the homes (number of showerheads, aerators etc.).

If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)



Upload

Clear

Browse...

**8) Implement an automatic meter reading program for residential customers.**

AMR or AMI

Select an Option ▾

Type of Network

Select an Option ▾

Number of connections installed

☐ Is your agency using these to contact high-use connections?

**If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)**

Upload

Clear

Browse...

**OTHER Types of Measures.**

New

Type of Program	Sample/Description	Actions
No data to display		

**If there is Water Savings in this measure, upload the Methodology Spreadsheet (backup data)**

Upload

Clear

Browse...

**Total Measured Water Savings (AF/Year)**

Save All

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City of Santa Maria

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## BMP 5 - Landscape

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## GPCD

[GPCD](#)

## BMP 3 Residential Traditional

[View MOU](#)

Survey Year 2010

Save All

Residential Assistance / Leak Detection	Single Family				Multi Family			
	Number	Requirement	Percent Compliant	Compliant	Number	Requirement	Percent Compliant	Compliant
# Accounts	6,605				2,231			
# Participants Overall			0%				0%	
# Leak Det Surveys		99	0%			33	0%	
# Showerheads			0%				0%	
# Faucet Aerators			0%				0%	
Landscape Water Survey			0%				0%	

# Other Components

# Description of Other Components Distributed Water Conservation Kits include: low-flow showerhead; bathroom faucet aerators; kitchen swivel; fill cycle

## High Efficiency Clothes Washers HECW

(Agency must complete information for at least one coverage option. You are encouraged to include information on other coverage options, as available; if seeking credit for additional water savings, you must fill out Flex Track.)

	Number	Requirement	Percent Compliant	Compliant?
Number of incentives for HECWs with an AVERAGE Water Factor of 5.0		NaN	NaN%	0

Financial incentives provided for HECWs that meet an average WF value of 5.0 or less ☐ Yes ☒ NoAgency Demonstration Done ☐ Yes ☒ No

HECW Market Penetration Study Documents

Upload

Clear

Browse...

## WaterSense Specification (WSS) toilets

(Agency must complete information for at least one coverage option. You are encouraged to include information on other coverage options, as available; if seeking credit for additional water savings, you must fill out Flex Track.)

## 1. Retrofit on Resale Ordinance is in Place

☒ Yes ☐ No

If Yes, Choose A File

Upload

Clear

Browse...

## 2. A 75% Market Saturation Achieved

☐ Yes ☒ No

If Yes, Choose A File

Upload

Clear

Browse...

## 3. WSS Toilets Installed

Single Family

Multi Family

	Number	Requirement	Percent Compliant	Compliant?		Number	Requirement	Percent Compliant	Compliant?
Number of WSS Toilets Installed									

Select or Enter Name of Other Components Distributed

Other Program Type Name

**WSS for New Residential Development**  
(Agency must complete information for at least one coverage option. You are encouraged to include information on other coverage options, as available; if seeking credit for additional water savings, you must fill out Flex Track.)

Water Regulation In Effect For Single-Family Homes ☒ Yes ☐ No

Water Regulation In Effect For Multi-Family Homes ☒ Yes ☐ No

New Multi-Family development Ordinance/Regulation

Retrofit Done On Resale Ordinance ☒ Yes ☐ No

Number Of New Single-Family Units Built In SA

Number Of New Multi-Family Units Built In SA

**List of Incentive Amounts**

Incentive Type	Incentive amounts	Number of WSS fixtures installed	Actions
No data to display			

Number Of Participating Single-Family Homes

Number Of Participating Multi-Family Homes

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[Flex Track](#)**GPCD**[GPCD](#)**BMP 4 CII**[View MOU](#)

Report the measure type and quantity installed, as well as savings attributed to water shortage measures, intervention and actions

Water savings goal based on 10% of the 10 Year Baseline Water Use

[New](#)

CII Traditional Saving			
Measure Type	Quantity Installed	Water Savings	Actions
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Update"/> <input type="button" value="Cancel"/>
		Total Savings:	0.00

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## Annual Reports

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[Retail Conservation Pricing](#)**BMP 2**[Public Outreach](#)  
[Public Outreach Cont'd](#)  
[School Education](#)**BMP 3 - Residential**[Traditional](#)  
[Flex Track](#)**BMP 4 - CII**[Traditional](#)  
[Flex Track](#)**BMP 5 - Landscape**[Traditional](#)  
[Flex Track](#)**GPCD**[GPCD](#)**BMP 5 Landscape**[View MOU](#)[Save](#)**CII Accounts with Dedicated Irrigation Meters**

Number of dedicated irrigation meter accounts

Number of dedicated irrigation meter accounts with water budgets

Aggregate water use for dedicated non-recreational landscape accounts with budgets

Aggregate acreage assigned water budgets for dedicated non-recreational landscape accounts with budgets

Aggregate acreage of recreational areas assigned water budgets and average ET for dedicated recreational landscape accounts with budgets

Preserved water use records and budgets for customers with dedicated landscape irrigation accounts for at least four years ☐ Yes ☐ No

**Technical Assistance**

Number of Accounts 20% over-budget

Number of accounts 20% over-budget offered technical assistance

Number of accounts 20% over-budget accepting technical assistance

**Irrigation Water Use Surveys for Mixed-use and Un-metered Accounts**

Number of mixed use and un-metered accounts

Number of irrigation water use surveys offered

Number of irrigation water use surveys accepted

Estimated annual water savings by customers receiving irrigation water save surveys and implementing recommendations

**Financial Incentives**[New](#)

Number of incentives	Dollar value of incentives	Incentive Types	Actions
No data to display			

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⑦ Request for an exemption



**Appendix L**  
**City of Santa Maria Self-Certification for Compliance**  
**with MOU**

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**SELF – CERTIFICATION FOR  
COMPLIANCE WITH BEST MANAGEMENT PRACTICES**

In 2004, the City of Santa Maria adopted a Water Conservation Plan and became signatories to the California Urban Water Conservation Council's (CUWCC) MOU. In 2005, the City of Santa Maria began Best Management Practices (BMP) Reporting with CUWCC. In addition, Santa Maria has met AB 1420 requirements with the California Department of Water Resources Division of Water Efficiency, as noted in a letter from the State on November 22, 2010.

Please check one of the boxes and sign and date this form.

☒ As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the applicant agency has fully complied with the California Urban Water Conservation Council's BMPs, and that these practices are in effect as of this date. The City of Santa Maria qualifies for an exemption due to the lack of cost-effectiveness for BMPs #5, 6, and 14.

---

I understand that the California Department of Water Resources will rely on this signed certification in order to accept the City's 2010 Urban Water Management Plan.

Richard G. Sweet, P.E.  
Name of Authorized Representative  
(Please print)

  
Signature

City of Santa Maria, Director of Utilities  
Title

May 3, 2011  
Date



## Appendix M

### AB 1420 Compliance

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**DEPARTMENT OF WATER RESOURCES**

1416 NINTH STREET, P.O. BOX 942836  
SACRAMENTO, CA 94236-0001  
(916) 653-5791

**RECEIVED**

NOV 29 2010

Utilities Department

November 22, 2010

Mr. Rick Sweet  
Director of Utilities  
City of Santa Maria  
2065 East Main Street  
Santa Maria, California 93454

Dear Mr. Sweet:

The Department of Water Resources (DWR) has reviewed the City of Santa Maria's Self-Certification Statement – Tables 1 and 2 submitted on November 3, 2010, regarding implementation of the Urban Best Management Practices (BMPs).

The purpose of DWR's review is to determine eligibility of the City of Santa Maria receive water management grant or loan funds. DWR has followed the *Draft AB 1420 Compliance Requirements* dated June 1, 2009. For detailed information, please visit <http://www.water.ca.gov/wateruseefficiency/finance/>.

Based on DWR's review of the information in Tables 1 and 2, the City of Santa Maria has and is currently implementing the BMPs consistent with AB 1420 and, therefore, is eligible to receive water management grant or loan funds.

DWR reserves the right to request additional information and documentation, including reports from the City of Santa Maria to substantiate the accuracy of the information provided in Tables 1 and 2. DWR may reverse or modify its eligibility determination and notify you and the funding agency if inaccuracies are found in the supporting documentation or in Tables 1 and 2.

If you have any questions, please contact me at (916) 651-7025 or Jodi Evans at (916) 651-7026.

Sincerely,

A handwritten signature in black ink, appearing to read 'Fethi BenJemaa'.

Fethi BenJemaa  
Ag Water Use Efficiency Section Chief

Please  
copy Shannon  
and Teresa  
on this

Thanks,  
Rick



**Appendix N**  
**Tables 1 and 2 of AB 1420**

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AB 1420 Self-Certification Statement Table 1

Note: Table 1 documents Status of Past and Current BMP Implementation.

Self-Certification Statement: The Urban Water Supplier and its authorized representative certifies, under penalty of perjury, that all information and claims, stated in this table, regarding compliance and implementation of the BMPs, including alternative conservation approaches, are true and accurate. This signed AB 1420 Self-Certification Statement Table 1, and Table 2 are the basis for granting funds by the Funding Agency. Falsification and/or inaccuracies in AB 1420 Self-Certification Statement Table 1, and Table 2 and in any supporting documents substantiating such claims may, at the discretion of the funding agency, result in loss of all State funds to the applicant. Additionally, the Funding Agency, in its sole discretion, may halt disbursement of grant or loan funds, not pay pending invoices, and/or pursue any other applicable legal remedy and refer the matter to the Attorney General's Office.

Name of Signatory: Rick Sweet Title of Signatory: Director of Utilities Signature of signatory: [Signature] Date: November 3, 2010

Application Date:

Proposal Identification Number: [ ] CUWCC Member? Yes/No [YES]

Has Urban Water Supplier submitted a 2005 Urban Water Management Plan? Yes/No [YES] Is the UWM Plan Deemed Complete by DWR? Yes/No [YES]

Applicant Name: City of Santa Maria Utilities Department

Project Title:

Applicant's Contact Information: Name: Myra Ritchie

Phone: (805) 925-0951 Ext. 7233

E-mail: mritchie@ci.santa-maria.ca.us

Participants:

Retailer (List Below)  
City of Santa Maria Utilities Department

Wholesaler (List Below)

C1	C2	C3	C4	C5	*C6	C7	**C8	**C9	**C10	C11	C12	C13	C14	C15	C16	C17	C18
				BMP Implemented by Retailers and/or Wholesalers / BMP			Compliance Options/Alternative Conservation Approaches (1)			BMP Is Exempt (2)			BMP Implementation Requirements Met				
BMPs required for Wholesale Supplier	BMPs required for Retail Supplier	Retailer Yes/No		Wholesaler Yes/No	Regional Yes/No	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	CUWCC MOU Requirement Met: Retailer Yes/No	CUWCC MOU Requirement Met: Wholesaler Yes/No	Date of BMP Report Submitted to CUWCC for (2007-2008) (MOU Signatories)	Date BMP Implementation Data Submitted to DWR in CUWCC Format (Non MOU Signatories) (3)	All Supporting Documents have been Submitted Yes/No	
			BMP 1 Water Survey for Single/Multi-Family Residential Customers	YES	NO	NO	YES					YES	NO		3/19/2009	N/A	YES
	✓		BMP 2 Residential Plumbing Retrofit	YES	NO	NO	YES					YES	NO		3/19/2009	N/A	YES
			BMP 3 System Water Audits, Leak Detection	YES	NO	NO	YES					YES	NO		3/19/2009	N/A	YES
✓	✓		BMP 3 Leak Repairs	YES	NO	NO	YES					YES	NO		3/19/2009	N/A	YES
			BMP 4 Metering with Commodity Rates for All New connections	YES	NO	NO	YES					YES	NO		3/19/2009	N/A	YES
	✓		BMP 4 Retrofit of Existing Connections	YES	NO	NO	YES					YES	NO		3/19/2009	N/A	YES

C1	C2	C3	C4	C5	*C6	C7	**C8	**C9	**C10	C11	C12	C13	C14	C15	C16	C17	C18
	BMPs required for Wholesale Supplier	BMPs required for Retail Supplier		BMP Implemented by Retailers and/or Wholesalers / BMP			Compliance Options/Alternative Conservation Approaches (1)			BMP Is Exempt (2)			BMP Implementation Requirements Met				
			BMPs	Retailer Yes/No	Wholesaler Yes/No	Regional Yes/No	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	CUWCC MOU Requirement Met: Retailer Yes/No	CUWCC MOU Requirement Met: Wholesaler Yes/No	Date of BMP Report Submitted to CUWCC for (2007-2008) (MOU Signatories)	Date BMP Implementation Data Submitted to DWR in CUWCC Format (Non MOU Signatories) (3)	All Supporting Documents have been Submitted Yes/No
			BMP 5 Large Landscape Conservation Programs and Incentives	YES	NO	NO	NO				X		YES	NO	3/19/2009	N/A	YES
			BMP 6 High-Efficiency Washing Machine Rebate Programs	YES	NO	NO	NO				X		YES	NO	3/19/2009	N/A	YES
			BMP 7 Public Information	YES	NO	NO	YES						YES	NO	3/19/2009	N/A	YES
			BMP 8 School Education	YES	NO	NO	YES						YES	NO	3/19/2009	N/A	YES
			BMP 9 Conservation programs for Commercial, Industrial, and Institutional (CII) Accounts	YES	NO	NO	YES						YES	NO	3/19/2009	N/A	YES
			BMP 10 Wholesale Agency Assistance Programs	YES	NO	NO	NO						YES	NO	3/19/2009	N/A	YES
			BMP 11 Conservation Pricing	YES	NO	NO	YES						YES	NO	3/19/2009	N/A	YES
			BMP 12 Conservation Coordinator	YES	NO	NO	YES						YES	NO	3/19/2009	N/A	YES
			BMP 13 Water Waste Prohibitions	YES	NO	NO	YES						YES	NO	3/19/2009	N/A	YES
			BMP 14 Residential ULFT Replacement Programs	YES	NO	NO	NO				X		YES	NO	3/19/2009	N/A	YES

\*C6: Wholesaler may also be a retailer (supplying water to end water users)

\*\*C8, \*\*C9, \*, and C10: Agencies choosing an alternative conservation approach are responsible for achieving water savings equal or greater than that which they would have achieved using only BMP list.

(1) For details, please see: <http://www.cuwcc.org/mou/ehb1-1-bmp-definitions-schedules-requirements.aspx>.

(2) BMP is exempt based on cost-effectiveness, lack of funding, and lack of legal authority criteria as detailed in the CUWCC MOU

(3) Non MOU signatories must submit to DWR reports and supporting documents in the same format as CUWCC.



**Appendix O**  
**Economic Analysis of Selected Demand**  
**Management Measures**

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**Santa Maria Customer Service Area**  
**Table O-1. Assumptions Used for Economic Analysis**

<b>General Assumptions</b>
<p>1. Value of conserved water equal to \$246 per acre foot.  Provided by Santa Maria</p> <p>2. Discount rate to discount costs and benefits of water conservation equal to 6%.  Provided by California Department of Water Resources.</p>

**Table O-1. Assumptions Used for Economic Analysis for BMP 5**

<b>BMP 5 – Large Landscape Conservation Programs and Incentives</b>
<p><b>Assumptions:</b></p> <p>1. Develop Eto-based water use budgets for 90 percent of the CII accounts with dedicated irrigation meters and provide irrigation water use surveys to 15 percent of CII accounts with mixed use meters.  MOU (Page 28)</p> <p>2. Average size of 0.1 acres for CII mixed use accounts and 0.56 acres for CII dedicated irrigation accounts.</p> <p>3. Water use prior to the survey is 4.5 ft per year.  Irrigation allocation is equal to 100 percent of local evapotranspiration (ET<sub>o</sub>), and the MOU estimates that surveys will reduce water usage by 15 percent. Based on California Irrigation Management Information System data.</p> <p>4. Surveys will reduce water usage by 15%.  MOU, page 30.</p> <p>5. The life span of the large landscape water surveys is four years.  A &amp; N Technical Services report (2003) gives a life span of four years for turf audits (page 2-34). <i>Water surveys for large landscapes are assumed to have a similar life span.</i></p> <p>6. Each survey will cost \$550 per acre. Minimum cost is \$250 per account.  The estimate includes labor, administration, evaluation and overhead.</p>

**Table O-1. Assumptions Used for Economic Analysis for BMP 6**

<b>BMP 6 – High-Efficiency-Washing-Machine Rebate Programs</b>
<p><b>Assumptions:</b></p> <ol style="list-style-type: none"> <li>1. Water savings from a high efficiency washing machine is 3.2 gpd for a residential unit. <i>Provided by Santa Maria</i></li> <li>2. Estimated 10,879 residential units are eligible for replacement. <i>Provided by Santa Maria.</i></li> <li>3. Washing machine replacement requires 2 hours of agency staff time plus \$50 rebate for a total of \$127 per unit. <i>Provided by Santa Maria.</i></li> </ol>

**Table O-1. Assumptions Used for Economic Analysis for BMP 14**

<b>BMP 14 – Residential ULFT Replacement Programs</b>
<p><b>Assumptions:</b></p> <ol style="list-style-type: none"> <li>4. Water savings from ULFTs are 33.9 gpd/unit for single-family residences and 49.3 gpd/unit for multi-family residences <i>MOU, Exhibit 6, Table 1 and Table 2.</i></li> <li>5. Homes constructed after 1991 already have ULFTs. <i>As of January 1992, California legislation requires that ULFTs be installed in all newly constructed homes.</i></li> <li>6. Natural toilet replacement rate is 4% per year. <i>MOU, page 79.</i></li> <li>7. The cost of toilets, advertising, administration, overhead, and toilet recycling is \$90 per ULFT. The cost does not include installation, which will be covered by the customer. <i>Average based on industry cost data.</i></li> </ol>

**Table O-2. Economic Analysis for BMP 5, Large Landscape Conservation Programs and Incentives**

**Santa Maria Customer Service Area**

	Water Saving Calculations						Benefits					Costs					
Calendar Year	CII Accounts w/Dedicated Irr. Meters Interventions	CII Accounts w/Mixed Use Meters Offered Surveys	CII Accounts w/Mixed Use Meters % Surveyed	CII Accounts w/Mixed Use Meters Interventions	Incremental Water Savings (AF/Yr)	Cumulative Water Savings (AF/Yr)	Avoided Capital Costs	Avoided Variable Costs	Avoided Purchase Costs	Total Undiscounted Benefits	Total Discounted Benefits	Capital Costs	Financial Incentives	Operating Expenses	Total Undiscounted Costs	Total Discounted Costs	Net Present Value
2010																	
2011	306	131	4.80%	63	119	119	0	0	29,326	29,326	27,666	0	0	109,458	109,458	103,262	-75,596
2012	306	131	4.80%	63	119	239	0	0	58,652	58,652	52,200	0	0	109,458	109,458	97,417	-45,217
2013	0	131	1.95%	25	2	240	0	0	59,074	59,074	49,600	0	0	6,367	6,367	5,346	44,254
2014	0	131	1.95%	25	2	242	0	0	59,497	59,497	47,127	0	0	6,367	6,367	5,043	42,084
2015	0	131	0.75%	10	1	123	0	0	30,333	30,333	22,667	0	0	2,449	2,449	1,830	20,837
2016	0	131	0.75%	10	1	5	0	0	1,170	1,170	825	0	0	2,449	2,449	1,726	-902
2017	0	131	0.00%	0	0	3	0	0	747	747	497	0	0	0	0	0	497
2018	0	131	0.00%	0	0	1	0	0	325	325	204	0	0	0	0	0	204
2019	0	131	0.00%	0	0	1	0	0	162	162	96	0	0	0	0	0	96
2020	0	131	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2029	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2030	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals:	612	1,306		196	243	974	\$0	\$0	\$239,287	\$239,287	\$200,882	\$0	\$0	\$236,547	\$236,547	\$214,624	-\$13,743
<div>Value of Conserved Water (\$/AF) = \$246</div> <div>Discount Rate (Real) = 6.00%</div> <div>Acres/CII accounts with dedicated irrigation meters = 0.56</div> <div>Acres/CII accounts with mixed use meters = 0.10</div> <div>Annual water use (ac-ft/acre) = 4.5</div> <div>Water Savings = 15%</div> <div>Conservation Measure Unit Cost (\$/Acre) = \$550</div> <div>Minimum Conservation Measure Unit Cost (\$/Account) = \$250</div> <div>Number of CII accounts with dedicated irrigation meters in 2010 = 680</div> <div>Number of CII accounts with mixed use meters in 2010 = 1,306</div> <div>Lifespan of Benefit (Years) = 4</div> <div>Benefit Cost Ratio: 0.94</div> <div>Simple Pay-Back Period (years): 21.4</div> <div>Discounted Cost / Water Saved (\$/AF): \$220</div> <div>NPV / Water Saved (\$/AF): -\$14</div>																	

**Table O-2. Economic Analysis for BMP 6, High-Efficiency-Washing-Machine Rebate Programs**

### Santa Maria Customer Service Area

	Water Savings			Benefits (\$)					Costs (\$)					
Calendar Year	No. of Washing Machines to be Replaced	Incremental Total Water Savings (AF/Yr)	Cumulative Total Water Savings (AF/Yr)	Avoided Capital Costs	Avoided Variable Costs	Avoided Purchase Costs	Total Undiscounted Benefits	Total Discounted Benefits	Capital Costs	Financial Incentives	Operating Expenses	Total Undiscounted Costs	Total Discounted Costs	Net Present Value
2010														
2011	544	2	2	0	0	480	480	453	0	0	69,277	69,277	65,356	-64,903
2012	544	2	4	0	0	960	960	854	0	0	69,277	69,277	61,657	-60,802
2013	544	2	6	0	0	1,440	1,440	1,209	0	0	69,277	69,277	58,167	-56,958
2014	544	2	8	0	0	1,920	1,920	1,521	0	0	69,277	69,277	54,874	-53,353
2015	544	2	10	0	0	2,400	2,400	1,793	0	0	69,277	69,277	51,768	-49,975
2016	544	2	12	0	0	2,880	2,880	2,030	0	0	69,277	69,277	48,838	-46,808
2017	544	2	14	0	0	3,360	3,360	2,235	0	0	69,277	69,277	46,073	-43,839
2018	544	2	16	0	0	3,840	3,840	2,409	0	0	69,277	69,277	43,466	-41,056
2019	544	2	18	0	0	4,320	4,320	2,557	0	0	69,277	69,277	41,005	-38,448
2020	544	2	20	0	0	4,800	4,800	2,680	0	0	69,277	69,277	38,684	-36,004
2021	0	0	20	0	0	4,800	4,800	2,529	0	0	0	0	0	2,529
2022	0	0	20	0	0	4,800	4,800	2,385	0	0	0	0	0	2,385
2023	0	0	20	0	0	4,800	4,800	2,250	0	0	0	0	0	2,250
2024	0	0	20	0	0	4,800	4,800	2,123	0	0	0	0	0	2,123
2025	0	0	20	0	0	4,800	4,800	2,003	0	0	0	0	0	2,003
2026	0	0	20	0	0	4,800	4,800	1,890	0	0	0	0	0	1,890
2027	0	0	20	0	0	4,800	4,800	1,783	0	0	0	0	0	1,783
2028	0	0	20	0	0	4,800	4,800	1,682	0	0	0	0	0	1,682
2029	0	0	20	0	0	4,800	4,800	1,586	0	0	0	0	0	1,586
2030	0	0	20	0	0	4,800	4,800	1,497	0	0	0	0	0	1,497
Totals	5,440	20	303	\$0	\$0	\$74,401	\$74,401	\$37,470	\$0	\$0	\$692,775	\$692,775	\$509,888	\$472,418
Value of conserved water (\$/AF) =								245.75	Benefit cost ratio =					0.07
Discount rate (real) =								6.00%	Simple pay-back period (years) =					272
Water savings due to washing machine replacement at SF homes (gallons/day)=								3.2	Discounted cost/water saved (\$acre-feet) =					\$1,684
Number of washing machines per SF home =								1.0	NPV/ water saved (acre-feet) =					-\$1,560
Cost of conservation measure =								\$127						
Potential residential units to replace (2010) (Source: Santa Maria)								10,879						





**Table O-3. Definitions of Terms Used in the Economic Analysis**

<b>Term</b>	<b>Definition</b>	<b>Comments</b>
<b>Benefits:</b>		
Avoided Capital Costs	Capital costs that are avoided by implementing the BMP	Example is the cost of a well that would not have to be installed due to implementation of the BMP.
Avoided Variable Costs	Variable costs that are avoided by implementing the BMP.	Example is the cost of electricity that would be saved if the BMP were implemented.
Avoided Purchase Costs	Purchase costs that are avoided by implementing the BMP.	Example is the cost of purchasing water that would not be required due to implementation of the BMP.
Total Undiscounted Benefits	The sum of avoided capital, variable, and purchase costs.	
Total Discounted Benefits	The present value of the sum of avoided capital, variable, and purchase costs.	The discount rate is used to calculate the present value of avoided costs.
<b>Costs:</b>		
Capital Costs	Capital costs incurred by implementing the BMP.	
Financial Incentives	Financial incentives paid to customers.	Example is the rebate for purchasing low-flow plumbing devices.
Operating Expenses	Operating expenses incurred implementing the BMP.	Example is the administrative cost of conducting surveys.
Total Undiscounted Costs	The sum of capital, financial incentives and operating expenses.	
Total Discounted Costs	The present value of the sum of capital, financial incentives and operating expenses.	The discount rate is used to calculate the present value of incurred costs.
<b>Results:</b>		
Net Present Value	Total discounted benefits minus total discounted costs.	A value greater than zero indicates an economically justifiable BMP.
Benefit/Cost Ratio	The sum of the total discounted benefits divided by the sum of the total discounted costs.	A ratio greater than one indicates an economically justifiable BMP.
Simple Pay-Back Period	The sum of the total discounted costs divided by the average annual total discounted benefits.	Indicates the number of years required for the benefits to pay back the costs of the BMP.
Discounted Cost/Water Saved	The sum of the total discounted costs divided by the total acre-feet of water saved over the study period.	Indicates the present-value cost to save one acre-foot of water. A low value is considered economically attractive.
Net Present Value/Water Saved	The sum of the net present value divided by the total acre-feet of water saved over the study period.	Indicates the net value of saving one acre-foot of water. A high value is considered economically attractive.